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**TELEGRAPHIC ADDRESS  
"CHEMICUS LONDON"**

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ENGLAND, 1859.*

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LONDON, E.C.

*Established in*  
**TRALASIA, 1885**

No. 1538 Vol. LXXV

JULY 17, 1909

Subscription, 10s. per annum, including Diary.

# **EVANS SONS LESCHER & WEBB, LTD.**

## **LIVERPOOL.**

# MONTHLY PRICE CURRENT

## *Drugs, Chemicals, and Pharmaceutical Preparations.*

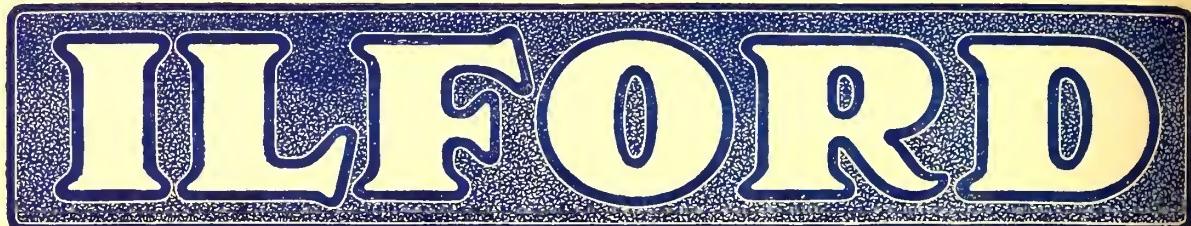
The issue July 1st (No. 554) has been thoroughly revised and re-printed in our own Printing Department.  
Any registered chemist whose name is not on our books and who would like a copy can have one on application.

BISMUTH SALTS.  
MERCURIALS  
ETHERS            SULPHURIC, ACETIC, BUTYRIC.  
CHLOROFORM  
LITHIA SALTS  
CAMPHOR

ENGLISH Refined entirely from  
NATURAL CAMPHOR.

The highest qualities of the above preparations are supplied at the lowest possible prices by the manufacturers,

MAY & BAKER, LTD.  
BATTERSEA.



"Ilford's are Plates of choice and rarest parts,  
That all photographers of beauty know,  
And in the most exact regard support  
The worships of their name."

*cf. Shakespeare, King Lear, Act I, Scene 4.*

## THE DEALER'S MAINSTAY.

**CERTINAL** The New Concentrated Liquid Developer which requires the addition of WATER ONLY for the Development of Ilford Plates and Papers. Does not stain nor injure the skin. 3 oz. Bottles, 1/3.

**OF ALL DEALERS.**

**ILFORD, Limited, ILFORD, LONDON, E.**

ON THE P.A.T.A. LIST.

# CAPSULOID S

FOR

**FALLING OUT and HAIR  
PREMATURELY GREY**

**Look at this Diagram** of a growing hair greatly magnified, showing how it grows entirely from its root, and that the root is nourished entirely by the blood. See the harmful germs in the root. When the blood is deranged these germs lodge there, multiply, use up the nourishment, soften the root, rob the hair of its colour, stop it growing and make it fall out. When CAPSULOID S are taken they are dissolved in the stomach and pass into the blood. They supply the wonderful life-giving influence to the red corpuscles which destroy the germs, nourish the roots and cause healthy, vigorous growth of the hair, and CAPSULOID S is the only remedy that will do this.

Price to the Public, 2 3 per box.

Price to Trade—For quantities of not less than 3 gross, 22 - per doz.; 1 gross, 22 6 per doz.; 4 dozen, 23 - per doz.

The above will be subject to a discount of 6d. per dozen if payment is made on or before the 10th of the month following month of purchase, and a further discount of 3d. per dozen ONLY IF CASH ACCOMPANIES THE ORDER. For less than 4 dozen, 23 6 per dozen, net cash with order.

For Export, Capsuloids are specially packed in Glass Tubes.

Material for very Attractive Window Display supplied on application to

**CAPSULOID S (1909) Ltd., 47 HOLBORN VIADUCT, LONDON, E.C.**

ON THE P.A.T.A. LIST.

# MOTHER'S ADVICE

(Formerly called CICFA)

CURES

# INDIGESTION,

CONSTIPATION, FLATULENCE, &amp; ACIDITY.

PRICE TO THE PUBLIC, 1/1½ and 2 9 per bottle.

Neatly Packed in Glass Tubes.

LARGE SIZE CONTAINS 3 TIMES AS MANY AS SMALL SIZE,

**PRICE TO TRADE.**

For quantities of £10 and upwards, for the small size	...	10 9
" £10 "	" large "	27 -
" £5 "	" small "	11 -
" £5 "	" large "	28 -

Subject to 2½ per cent. discount. CASH WITH ORDER.

For smaller quantities—small size, 11 3 per dozen, net cash with order.

" "	" large size,"	29 6	" "	" "
-----	----------------	------	-----	-----



REMEMBER!

"MOTHER'S ADVICE"

CURES INDIGESTION.

**CAPSULOID S (1909) Ltd., 47 HOLBORN VIADUCT, LONDON, E.C.**



Fig. 1383

Telegraphic Address:  
"ELEVEN LONDON."**MAW'S**Telephone No. :  
LONDON WALL 3230 (4 lines).

# RECESS SHOP ROUNDS

WITH  
**HAND-WRITTEN BOLD EGYPTIAN LETTERING.**

**ORDINARY QUALITY, PER DOZ.—**

	5 oz.	10 oz.	20 oz.	30 oz.	40 oz.
N. M.	14 6	15 3	17 -	17 9	19/6
W. M.	14 9	15 6	17 6	19 -	20/-

ACTINIC GREEN FLUTED, FOR POISONS, SAME PRICES.

**SUPER QUALITY.—**

	5 oz.	10 oz.	20 oz.	30 oz.	40 oz.
N. M. OR W. M.—PER DOZ.—	20/-	21 -	24 -	27 6	28/6

ACTINIC GREEN FLUTED, FOR POISONS, SAME PRICES.

**SECOND QUALITY SHOP ROUNDS, STOPP.—PER DOZ.—**

	4 oz.	6 oz.	8 oz.	10 oz.	16 oz.	20 oz.	30 oz.	40 oz.
N. M.	2 1	2 3	2 9	2 10	4 2	4 8	5 9	6/6
W. M.	2 6	2 9	3 -	3 3	4 6	4 10	6 -	6/10

**SUPER QUALITY, HAND MADE.—PER DOZ.—**

	4 oz.	6 oz.	8 oz.	10 oz.	16 oz.	20 oz.	30 oz.	40 oz.
N. M.	6 4	6 10	7 9	8 -	8 6	9 -	10 9	11/9
W. M.	6 10	7 9	8 3	8 6	9 -	9 6	11 8	12/6

**GOLD CURVED BAND LABELS**, ON SECOND OR SUPER QUALITY SHOP ROUNDS,  
EGYPTIAN LETTERS (L 1) OR ROMAN LETTERS (L 3).

SEE BOOK OF ILLUSTRATIONS, PAGE 167.

3 6 PER DOZEN, FOR ALL SIZES.

**WITH**  
**RECESS**  
**LABELS.**

# SHOP JARS.

SEMI-PORCELAIN.  
Blue, Green, Maroon, or Pink.

Plain	3 9	4 6	5 3	6 -	6 6	EACH.
Gilt	4 6	5 9	7 3	8 6	9 -	"

THESE ARE  
NOT KEPT IN  
STOCK, BUT  
ARE MADE TO  
ORDER AT A  
FEW WEEKS'  
NOTICE.

**EARTHENWARE SHOP JARS**, WITH CANOPY COVERS, AS FIG. 1464.

	IN BLUE, LILAC AND OLIVE GREEN, PER DOZ.—						
TOTAL HEIGHT	4 oz.	6 oz.	8 oz.	1 lb.	2 lb.	3 lb.	4 lb.
4 in.	4 1/2 in.	5 1/2 in.	7 1/2 in.	8 1/2 in.	9 1/2 in.	11 1/2 in.	12 1/2 in.
5 -	6 -	7 4	10 8	21 -	32 -	42 -	64/-

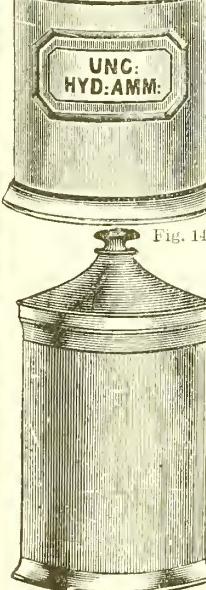
**GOLD CURVED BAND LABELS**, AS (L 1) OR (L 3), 3 6 DOZ. EXTRA.

SEE BOOK OF ILLUSTRATIONS, PAGE 167.

USUAL DISCOUNT.

**S. MAW, SON & SONS**, 7-12 Aldersgate Street, LONDON, E.C.

Fig. 1464



# "KRYSYL"

(TRADE MARK.)

(STEVENSON.)

An Ideal Disinfectant.

*A Chemist sends us the following testimonial received from his customer:—*

**"Krystyl"**

"I like this Disinfectant very much indeed, and use it exclusively in my kennels; I may say that I rear about 60 puppies every year, and since using "Krystyl" have not had a single case of distemper." (Ver. sap.)

**"Krystyl"**

1.9 per gallon; 200 gallons, 1.7; 500 gallons, 1.6 per gallon net.

40-GALLON CASKS FREE. 5-GALLON DRUMS, 36 EACH. 10-GALLON DRUMS, 6 EACH, F.O.B.

Also attractively put up in pint bottles, 7.6 per dozen Net.

## "KRYSYL" SURGICAL.

(TRADE MARK.)

(STEVENSON.)

This special miscible fluid is one of the most powerful Germicides on the market. It has a guaranteed co-efficiency of 16 on B. Typhosus according to the Rideal-Walker test. This test represents the power to sterilise a culture of a specified Bacterium, taking pure Phenol as the standard: in other words it means that the special Surgical "Krystyl" is **not less than 16 times the strength of Pure Carbolic Acid**, so that if 1 part of Carbolic Acid in 100 parts of water were required to destroy a culture of Bacillus Typhosus, 1 part of Surgical "Krystyl" in 1600 parts of water would exert the same power.

This very high test fluid is naturally more expensive than ordinary "Krystyl," but this is more apparent than real when its great concentration is considered.

Price in Pint Bottles, 1.3 each; or 5 - per Gallon.

**SPECIAL PRICE IN LARGE QUANTITY.**

1-gallon tins charged 1/- each; 5 gallon drums 36 each; and 10-gallon drums 6 - each.

**Sole Proprietors**

## Baiss Brothers & Stevenson

CONTRACTORS TO  
H.M. GOVERNMENT.

(Limited),

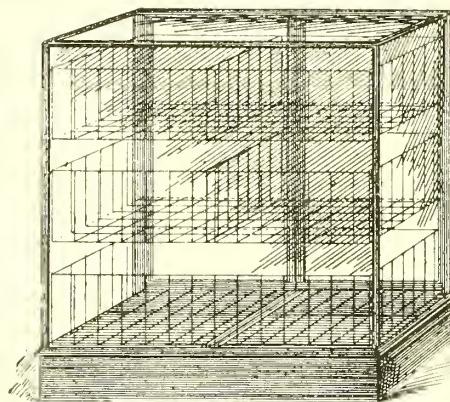
Jewry St., LONDON, E.C.

# D. GRANT,

**SHOPFITTER & PATENTEE,  
ST. JAMES PLACE, EDINBURGH.**

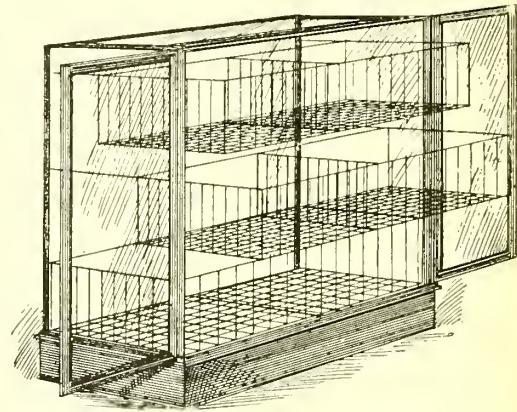
Below we give an illustration of sponge case for centre of floor with patent system of brass wire sliding trays. The trays may be subdivided, and sponges, &c., can be arranged and classified and easily selected with little trouble.

Sketches and estimates for every description of fittings sent on receipt of floor plan and measurements. Fittings made up for foreign and colonial trade in our workshops in sections and easily put together again by ordinary tradesmen.



**FRONT VIEW OF SPONGE CASE.**

With patent system of sliding trays for the fullest display and classification of sponges.



**BACK VIEW OF SPONGE CASE.**

Showing method of pulling out trays.

Chemists who may not wish to fill up the entire case with sponges can have glass shelf fitted into case a few inches down from top for the display of sundries and the usual sponge trays fitted underneath. These trays may be divided into any number of compartments.

*Prices of Cases as shewn above, each fitted with three Brass Sliding Trays:*

30 in. by 26 in. by 36 in. high	-	-	-	-	£8.
36 in. by 26 in. by 36 in. high	-	-	-	-	£9.
42 in. by 26 in. by 36 in. high	-	-	-	-	£10.

*The following is a List of Chemist Shops Fitted up to 1909:—*

**EDINBURGH.—**

Mr. WATT, Newington.  
„ SUTHERLAND, Rodney Street.  
„ WHYTE, Inverleith Row.  
„ ROBERTSON, Inverleith Row.  
„ ANDERSON, Tollcross.  
„ ANDERSON, Morningside.  
„ GLASS, Morningside.  
„ GLASS, North Bridge.  
„ BAXTER, Strathearn Road.  
„ GIBB, Marchmont Road.  
„ REID, Elm Row.  
„ BEATTIE, Bruntsfield Place.  
„ MASON, Comely Green.  
„ McCALLUM, Meadowbank.  
„ COWIE, Dublin Street.  
„ SOMERVILLE, Clerk Street.  
„ COATES, Leith.  
„ DUDGEON, Leith.  
„ CORMACK, Corstorphine.  
„ JAMIESON, Roslin.  
„ MULVENNA, Gilmerton.  
„ STENHOUSE, Musselburgh.  
„ KEMP, Eskbank.  
„ KEMP, Dalkeith.  
„ LAING, Juniper Green.

Mr. LAING, Colinton.

„ McLaren, Pathhead.  
Dr. KELSO, Broxburn.  
Mr. STUART, Broxburn  
„ REID, Bathgate.  
„ FORRESTER, Dystart.  
„ FORRESTER, Cupar.  
„ FORRESTER, Sinclairtown.  
„ BOWMAN, Cardenden.  
„ RAMSAY, Cardenden.  
„ BOWMAN, Anstruther.  
„ ROBERTSON, Douglas Street,  
Dunfermline.  
„ ROBERTSON, Moodie Street,  
Dunfermline.  
„ GREIG, Cowdenbeath.  
„ YULE, Cowdenbeath.  
„ ROBERTSON, St. Andrews.  
„ HUSBAND, Leven.  
„ COWIE, Largo.  
„ FRASER, West Linton.  
„ KEARNEY, Hawick.  
„ SCROGGIE, Lauder.  
„ ROBERTSON, Berwick  
„ CRAIG, Lanark.  
„ EUNSON, Biggar.  
„ D. DUNCAN, Grahamston, Falkirk.

Mr. REID, Bothwell.

„ MCNAUGHTON, Port Glasgow.  
„ J. FRASER, Helensburgh.  
„ FREELAND, Dunoon.  
„ B. MCLEAN, Kilmaclom.  
„ BOYD, Kilmarnock.  
„ McINNES, West Kilbride.  
„ HARLEY, Bridgend, Perth.  
„ HARLEY, High Street, Perth.  
„ MUNRO, Scone.  
„ BRUNTON, Perth.  
„ NICOL, Carnoustie.  
„ PETRIE, Blairgowrie.  
„ BUCHANAN, Kirriemuir.  
„ HUNTER, Fraserburgh.  
„ HAY, Banff.  
„ FRASER, Forres.  
„ McDONALD, Inverness.  
„ HENDRY, Inverness.  
„ McVITIE, Maryport.  
„ H. H. SWANN, Paris.  
„ LAIDLAW, Lockerbie.  
„ SMITH, Boness.  
„ MICHEL, Perth Road, Dundee.  
„ CAIRNIE, Lochgelly.  
„ FOTHERINGHAM, Dalry, Ayrshire.  
„ MCINNES, Bathgate.



**BOOKS AND MAGAZINES**

Churchill, J. & A.  
Ilford "Photo Manual."  
Lewis, H. K.  
Martindale's "Extra Phar."  
"Prescriber, The"  
Squire's "Companion"

**BOTTLES**

Barnett & Foster  
Beatson & Co.  
Brefitt, E., & Co., Ltd.  
Chemists' Co-operative Wholesale  
Fecher, M. J.  
Gaasch, J. B.  
Isaacs & Co.  
Johnsen & Jorgensen, Ltd.  
Kilner Bros., Ltd.  
Lang, Jules, & Son  
Maw, S., Son & Sons  
May, Roberts & Co.  
Poths, H., & Co.  
Toogood, W., Ltd.  
Youldon, E., Ltd.

**BOXES**

Ayrton, Saunders & Co., Ltd.  
Brefitt, E., & Co., Ltd.  
Ford, Shapland & Co.  
Harrison & Waide  
May, Roberts & Co.  
Robinson & Sons, Ltd.  
Rogers & Co.  
Stipendum Stopper Co.

**BREAST RELIEVERS**

Maw, S., Son & Sons

**BROMIDES AND BROMIDES**

Howards & Sons, Ltd.  
Merck, E.

**BRUSHES**

Bidwell, Bidwell & Co.

Fecher, M. J.  
Hovenden, R., & Sons, Ltd.

Kent, G. B., & Sons, Ltd.

Maw, S., Son & Sons

May, Roberts & Co.

Nicholls, W. G., & Co.

Tilbury, W. R., & Co.

**BUTTER COLOURING**

Fullwood, R. J., & Bland

Oldfield, Pattinson & Co.

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Christy, T., & Co.

**CAMOMILES**

Boehm, F., Ltd.

Salle, H., & Cie.

**CAMPHOR**

Alliance Drug & Chemical Co.  
Chemists' Co-operative Wholesale

Howards & Sons, Ltd.

May & Baker, Ltd.

**CAPPING MATERIALS**

Erhardt, H., & Co., Ltd.

Viscose Co., Ltd.

**CAPS FOR BOTTLES, &c.**

Darter, Wilkinson & Co.

Fecher, M. J.

Viscose Co., Ltd. (self-fixing)

**CAPSULES**

Allen & Hanburys, Ltd.

Baiss Bros. & Stevenson, Ltd.

British Drug Houses, Ltd.

Davies, Sons & Co.

Denoual, J., & Co.

Duncan, Flockhart & Co.

Lloyd, T. Howard, & Co.

Mawson & Co.

Parke, Davis & Co.

Pill, Tablet, & Capsule Alliance

Tye, J., & Son

Wand Mfg. Co.

Wander, A.

Warwick Bros.

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Melin, C.

**CARAGHEEN MOSS**

Holznauer & Schmidt

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Burt, Boulton & Hayward, Ltd.

Calvert, F. C., & Co.

Chemists' Co-operative Wholesale

Hoffmann-La Roche, Ltd.

Hollingshurst & Co.

(See also DISINFECTANTS)

**CARBOYS**

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**CARTONS**

Ford, Shapland & Co.

Harrison & Waide

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Gledhill, G. H., & Sons, Ltd.

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O'Brien, T.

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Brunner, Mond & Co., Ltd.

**CASTOR OIL**

Boehm, F., Ltd.  
Hull Oil Mfg. Co., Ltd.  
Premier Oil Extract Mills, Ltd.

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Kay Bros., Ltd.

**CHALK, PRECIPITATED**

Levermore, A. & Co.  
Mumford, G. S., & Sons  
Nichols Chemical Co., Ltd.  
Sturge, John & E.

**CHAMOIS**

Cresswell Bros. & Schmitz  
Internat'l. Sponge Importers  
Kent, G. B., & Sons, Ltd.  
Solport Bros.

**CHEMICAL MFRS.**

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Boehringer, C. F., & Soehne  
Bramwell, E., & Son  
British Drug Houses, Ltd.  
Brunner, Mond & Co., Ltd.  
Burroughs Wellcome & Co.  
Harrington Bros., Ltd.  
Hoffmann-La Roche, Ltd.  
Howard & Sons, Ltd.  
Macfarlan, J. F., & Co.  
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Merck, E.  
Morson, T., & Son  
Reitmeyer & Co.  
Schimmele & Co.  
Smith, T. & H., Ltd.  
Sthamer, Dr. Richard  
Sturge, John & E.  
Tyrrer, T., & Co., Ltd.  
Washington Chemical Co.  
White, A., & Sons

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Allen, Stafford, & Sons, Ltd.  
Ayrton, Saunders & Co.  
Beetham, M., & Son  
Bell, John, Hills & Lucas, Ltd.  
Blackie, R.  
British Drug Houses, Ltd.  
Burroughs Wellcome & Co.  
Bush, W. J., & Co., Ltd.  
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Owbridge, W. T., Ltd.  
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Potter & Clarke  
Randall & Son, Ltd.  
Ransom, W., & Son  
Reitmeyer & Co.  
Sankvo & Co.

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Squire & Sons  
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Thompson & Capper

Wand Mfg. Co.

Woolleys, Ltd.

(See also WHOLESALE)

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Wood, Vincent

**CHLORIDE OF LIME**

Brunner, Mond & Co., Ltd.

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Duncan, Flockhart & Co.

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Morson, T., & Son

Smith, T. & H., Ltd.

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Sturge, John & E.

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Sturge, John & E.

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Sturge, John & E.

**COTTON SEED OIL**

British Drug Houses, Ltd.

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Morson, T., & Son

Sturge, John & E.

**COTTON SEED WAX**

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Sturge, John & E.

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Sturge, John & E.

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British Drug Houses, Ltd.

**THE CHEMIST AND DRUGGIST**  
**SUPPLEMENT**

**ELASTIC HOSIERY**  
Ayrton, Saunders & Co., Ltd.  
Berliner, Arthur  
Burge, Warren & Ridgley, Ltd.  
Haywood, J. H.  
Maw, S., Son & Sons  
Wood, Vincent

**EMERY AND CLOTH**  
Oakley, J., & Sons, Ltd.

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Allen & Hanburys, Ltd.  
Ayrton, Saunders & Co.  
Baiss Bros. & Stevenson, Ltd.  
Blackie, R.  
British Drug Houses, Ltd.  
Evans Sons Lescher & Webb, Ltd.  
Faulding, F. H., & Co.  
Harker, Stagg & Morgan, Ltd.  
Lorimer & Co., Ltd.  
Oldfield, Pattinson & Co.  
Scott & Bowne, Ltd.  
Parke, Davis & Co.  
Woolley, Jas., Sons & Co.  
Woolleys, Ltd.

**EPSOM SALTS**  
Howards & Sons, Ltd.

**ESSENCES, CONCRETE**  
Lautier Fils  
Murray, O., & Co., Ltd.  
Roure-Bertrand fils  
Schmoller & Bompard

**ESSENCES, SOL AND FRUIT**  
Alliance Drug & Chem. Co.  
Baiss Bros. & Stevenson, Ltd.  
Barnett & Foster  
Boake (A.), Roberts & Co., Ltd.  
Bush, W. J., & Co., Ltd.  
Evans Sons Lescher & Webb  
Hay, Wm., Ltd.  
Lautier Fils  
London Essence Co.  
Lorimer & Co., Ltd.  
Newball & Mason  
Roure-Bertrand fils  
Spencer, J., Son & Co.  
Stevenson & Howell, Ltd.  
Zimmermann, A. & M.

**ENEMAS**  
Bailey, W. H., & Son  
Burge, Warren & Ridgley  
Davol Rubber Co.  
Hay, J. B., & Co.  
Ingram, J. G., & Son  
Maw, S., Son & Sons  
Toogood, W., Ltd.  
Warne, W., & Co., Ltd.

**ETHERS**  
Baiss Bros. & Stevenson, Ltd.  
Macfarlan, J. F., & Co.  
May & Baker, Ltd.  
Tyrer, T., & Co., Ltd.  
White, A., & Sons

**EUCALYPTUS OIL**  
British Drug Houses, Ltd.  
Baiss Bros. & Stevenson, Ltd.  
**EXTRACT OF HERBS**  
Newball & Mason  
Potter & Clarke  
**EXTRACTS (MEDICINAL)**  
Allen, Stafford, & Sons, Ltd.  
Chemists' Co-operative Wholesale  
Hewlett, C. J., & Son  
Parke, Davis & Co.  
Ransom, W., & Son  
(See also WHOLESALE DRUGGISTS)

**FEEDING BOTTLES**  
Brettell, E., & Co., Ltd.  
Fecher, M. J.  
Hovenden, R., & Sons, Ltd.  
Kilner Bros., Ltd.  
Maw, S., Son & Sons  
Sangers'  
Southall Bros. & Barclay, Ltd.

**FILTERS (WATER)**  
Berkfeld Filter Co., Ltd.

**FLESH GLOVES**  
Sangers'

**FLYCATCHERS**  
Alabastine Co. (British), Ltd.  
Deansmere Manfg. Co.  
Flykatcho  
Ford, Shapland & Co.  
Frowein, C.  
Kay Bros., Ltd.  
Smith, J. H., & Co.  
Strong, Christy  
Tunbridge & Wright

**FORMALDEHYDE**  
Burt, Boulton & Haywood

**FOODS, INFANTS'**  
Allen & Hanburys, Ltd.  
Benger's Food, Ltd.  
Frame Food Co., Ltd.  
Lofthouse & Saltmer  
Natural Food Co., Ltd.  
Willows, Francis, B. & T.

**FOODS, SPECIAL**  
Allen & Hanburys, Ltd.  
Benger's Food, Ltd.  
Brand & Co., Ltd.  
Burt, C. J.  
Callard & Co.  
Fairchild Bros. & Foster  
Frame Food Co., Ltd.  
Menley & James, Ltd.  
Natural Food Co., Ltd.  
Wander, A.

**FRUIT CRYSTALS**  
Aerators, Ltd.

**FULLER'S EARTH**  
Mumford, G. S., & Sons

**FUMIGATORS**  
Sanitas Co., Ltd.

**GELATIN AND GLUE**  
Boehm, F., Ltd.

**GLAUBER'S SALT**  
Bramwell, E., & Son  
Howards & Sons, Ltd.

**GLYCERIN**  
Boehm, F., Ltd.  
Price's Patent Candle Co.

**GOLD PAINT**  
Judson, D., & Son

**GRINDERS**  
Allen, Stafford, & Sons, Ltd.  
Goodall, Backhouse & Co.  
Willows, Francis B. & T.

**HAIR PREPARATIONS**  
Capsuloids (1909), Ltd.  
Chesbrough Manfg. Co.  
Edwards' "Harlene," Co.  
Harker, Stagg & Morgan  
Herpicide Co.  
John Strange Winter  
Martin & Co.  
Robare's Aureoline  
Rowland, A., & Sons  
Woolleys, Ltd.

**HAIR WAVERS AND CURLERS**  
Merkham Trading Co., Ltd.

**HAT DYES**  
Whitaker & Co.

**HAT RENOVATORS**  
Christy, T., & Co.

**HEATING FLASKS**  
Gutmann, A. E., & Co.

**HERBS**  
Potter & Clarke

**HOMOEOPATHIC MEDICINES**  
Ashton & Parsons, Ltd.  
Keene & Ashwell, Ltd.  
Leath & Ross

**HOT-WATER BOTTLES**  
Berliner, Arthur  
Burge, Warren & Ridgley  
Hutchinson Co.  
Maw, S., Son & Sons  
May, Roberts & Co.  
Southall Bros. & Barclay  
Wood, Vincent

**HOTELS**  
Esmond Hotel  
Kingsley Hotel  
Thackeray Hotel

**HYDROGEN PEROXIDE**  
May & Baker, Ltd.  
Sanitas Co., Ltd.  
Tyler, T., & Co., Ltd.

**HYPOPHOSPHITES**  
May & Baker, Ltd.  
Merek, E.  
Tyler, T., & Co., Ltd.

**INHALERS**  
Christy, T., & Co.  
Fecher, M. J.  
Sangers'

**INK**  
Bewley & Draper, Ltd.  
Hickisson, A. B.

**INSECT POWDER**  
Boehm, F., Ltd.  
Smith, B. A., & Co.

**INSECTICIDES**  
Christy, Thos., & Co.  
Corry & Co., Ltd.  
Smith, B. A., & Co.  
Tomlinson & Hayward, Ltd.  
Voss, Walter, & Co.  
Woolleys, Ltd.

**IODINE AND IODIDES**  
Howards & Sons, Ltd.  
Merek, E.  
Morson, T., & Son

**TROSYL**

Fletcher, Fletcher & Co.

**JARS AND POTS**

Brettell, E., & Co., Ltd.

Cook, A., & Co.

Johnson & Jorgensen, Ltd.

Kilner Bros., Ltd.

Lang, Jules, & Son

Maw, S., Son & Sons

Poths, H., & Co.

Reuter, R. J.

Stipendium Stopper Co.

Toogood, W., Ltd.

**LACTIC FERMENTS**

Allen & Hanburys, Ltd.

Cox, Arthur H., & Co., Ltd.

Martindale, W.

Parke, Davis & Co.

Wilcox, Joczeau & Co.

**LAMPS, DISINFECTING**

Roberts, Cornford & Co.

**LANOLINE**

Burroughs Wellcome & Co.

Christy, T., & Co.

Sangers'

**LARD**

Chemists' Co-operative Wholesale

Ewen, J., & Sons

**LIME JUICE AND CORDIAL**

Evans Sons Lescher & Webb

Goodall, Backhouse & Co.

Idris & Co., Ltd.

**LINSEED, CRUSHED, ETC.**

Allen, Stafford, & Sons

Mumford, G. S., & Sons

**LINTS**

Vernon & Co., Ltd.

**LIQUORICE JUICE**

Boehm, F., Ltd.

British Drug Houses, Ltd.

Evans, Gray & Hood

Evans Sons Lescher & Webb, Ltd.

Horner & Sons

Jackson, E. E.

Mumford, G. S., & Sons

**LIQUORS, CONC., ETC.**

Allen, Stafford, & Sons, Ltd.

Fletcher, Fletcher & Co.

Hewlett, C. J., & Son

Robinson, B., & Co.

**LITHIA SALTS**

British Drug Houses, Ltd.

May & Baker, Ltd.

Merek, E.

**LOOFAHS**

Cresswell Bros. & Schmitz

**LOZENGES**

Allen & Hanburys, Ltd.

Cox, A. H., & Co., Ltd.

Denoual, J., & Co.

Jackson, E. E.

Potter & Clarke

Raines & Co.

Warrick Bros.

**MACHINERY, PHARMACAL**

Allen & Hanburys, Ltd.

Bennett, E., & Son, Ltd.

Bennett, Sons & Shears, Ltd.

Fecher, M. J.

Gardner, Wm., & Sons, Ltd.

Pindar, J. W., & Co.

Smith, B. A., & Co.

Stokes, F. J., Machine Co.

Thompson & Capper (Stokes)

Wilkinson, S. W., & Co.

**MAGNESIA AND ITS SALTS**

Henry, T. & W.

Howards & Sons, Ltd.

May & Baker, Ltd.

Washington Chemical Co.

**MAILING CASES**

May, Roberts & Co.

**MALT EXTRACT AND PREPS.**

Allen & Hanburys, Ltd.

Baiss Bros. & Stevenson, Ltd.

Blackie, R.

British DiaMalt Co.

Burroughs Wellcome & Co.

Evans Sons Lescher & Webb

Hewlett, C. J., & Son

Lorimer & Co., Ltd.

Oppenheimer, Son & Co., Ltd.

Paine & Co., Ltd.

Southall Bros. & Barclay, Ltd.

Squire & Sons

Woolley, Jas., Sons & Co., Ltd.

Wright, Layman & Umney

**MARKING INK**

Hickisson, A. (Bond's)

**MEAT EXTRACTS**

Armour & Co., Ltd.

Brand & Co., Ltd.

Buvo, Ltd.

**MEDICINE CHESTS**

Burroughs Wellcome & Co.

Keene & Ashwell, Ltd.

Leath & Ross

Lloyd, T. Howard, & Co.

Parke, Davis & Co.

**MENTHOL CONES**

Maw, S., Son & Sons

**MERCURIALS**

Howards & Sons, Ltd.

May & Baker, Ltd.

Merek, E.

Tyler, T., & Co., Ltd.

**METEOROLOGICAL SETS**

Darton, F., & Co.

**METHYLATED SPIRIT**

Burroughs, J., Ltd.

Preston's Liverpool Distillery

Randall & Son, Ltd.

**MILK APPARATUS**

Zimmermann, C., & Co.

**MILK BYPRODUCTS**

Casein, Ltd.

**MINERAL WATERS AND SALTS**

Apollinaris Co., Ltd.

British Drug Houses, Ltd.

Hughes, E. Griffiths

Ingram & Royle, Ltd.

Vichy (State Springs)

**NAPHTHAS**

Toogood, W., Ltd.

**OILS, ESSENTIAL**

Allen, Stafford, & Sons, Ltd.

Price's Patent Candle Co.

Smith, B. A., & Co.

**OILS, MINERAL**

Price's Patent Candle Co.

Wright, Layman & Umney

**OINTMENTS**

Blackie, R.

Chemists' Co-operative Wholesale

Oldfield, Pattinson & Co.

**OPTICAL GOODS**

Bowright & Grey

Darton, F., & Co.

Maw, S., Son & Sons

Newberry, F., & Sons, Ltd.

Nitsche & Gunther

Rajah's, Ltd.

**OPTICAL INSTRUCTION**

British Optical Institute

**OTTO OF ROSE**

Bontekoff & Kapp

Pappazoglou, D.

Reitmeyer & Co. (synthetic)

Seraphimoff, S., & Co.

Shipoff & Co.

**PASTILLES**

Allen & Hanburys, Ltd.

Asche, C. F., & Co.

Baiss Bros. & Stevenson

Burroughs Wellcome & Co.

Denoual, J., & Co.

Evans Sons Lescher & Webb

Warrick Bros.

**PACKED GOODS**

See WHOLESALE

**PALATINOIDS**

Openheimer, Sons &amp; Co.

**PATENT AGENT**

Barker, R. W.

**PERFUME MATERIALS**

Bush, W. J., & Co., Ltd.  
Chiris, Antoine  
Compagnie Morana  
Lautier fils  
Mühllethafer, Th., Ltd.  
Murray, O., & Co., Ltd.  
Schimmel & Co.  
Shipkoff & Co.  
Spencer, J., Son & Co.  
Treatt, R. C., & Co.  
Zimmermann, C., & Co.

**PERFUMES**

Allen Hanburys, Ltd.  
Barclay & Sons, Ltd.  
Breidenbach & Co.  
Bronnley, H., & Co., Ltd.  
Bush, W. J., & Co., Ltd.  
Christy, T., & Co.  
Chuit, Naef & Co.  
Erasmic Co., Ltd.  
Evans Sons Lescher & Webb, Ltd.  
Hewlett, C. J., & Son  
Hovenden, R., & Sons, Ltd.  
Lescol Perfumery Co.  
McCracken, J. & R.  
Maw, S., Son & Sons  
Newberry, F., & Sons, Ltd.  
Quelch, H. C., & Co.  
Southall Bros. & Barclay  
Spencer, J., Son & Co.  
To-Kalon Mfg. Co.  
Warrick Bros.  
West, T.  
Yardley & Co., Ltd.

**PESSARIES**

Burge, Warren & Ridgley  
Rendell, W. J.

**PETROLEUM EMULSION**

British Drug Houses, Ltd.

**PETROLEUM JELLY**

Chesebrough Mfg. Co.

**PHOTO. CHEMICALS**

Boehringer, C. F., & Soehne  
Burroughs Wellcome & Co.  
Lockyer, J. E.  
Merck, E.

**PHOTO. GOODS**

Barclay & Sons, Ltd.  
Barton, F., & Co.  
Evans Sons Lescher & Webb  
Halifax Photographic Co.  
Ilford, Ltd.  
Lennon, Ltd.  
May, Roberts & Co.  
Murdock, John, & Co.  
Newberry, F., & Sons, Ltd.

**PHOTO. ENLARGERS, PRINTERS, &c.**

Express Developing Co.  
Halifax Photographic Co.

**PILL MAKERS**

Allen & Hanburys, Ltd.  
Asche, C. F., & Co.  
Bishop, Alfred, Ltd.  
British Drug Houses, Ltd.  
Cox, A. H., & Co., Ltd.  
Davies, Sons & Co.  
Evans Sons Lescher & Webb, Ltd.  
Hewlett, C. J., & Son  
Howards & Sons, Ltd.  
Lloyd, T. Howard, & Co.  
McKesson & Robbins  
Parke, Davis & Co.  
Pill, Tablet, & Capsule Alliance  
Southall Bros. & Barclay  
Standard Tablet & Pill Co.  
Wand Mfg. Co.  
Warner, W. R., & Co.  
Woolley, J., Sons & Co., Ltd.

**PLASTERS**

Allcock Mfg. Co.  
Berliner, Arthur  
Beiersdorf, P., & Co.  
Dalmas, A. de St., & Co.  
Leslies, Ltd.  
Maw, S., Son & Sons  
Solport Bros.

**POLISHES (VARIOUS)**

Bradley & Bourdas  
Judson, Daniel, & Son  
Oakey, J., & Son, Ltd.

**PROPRIETARY ARTICLES**

American Drug Stores  
Anglo-American Drug Co.  
Ashton & Parsons, Ltd.  
Atkinson & Barker  
Barclay & Sons, Ltd.  
Battle, Son & Maltby  
Beecham, T.  
Beiersdorf, P., & Co.  
Box, W. H.  
British Drug Houses, Ltd.  
Capsuloids (1909), Ltd.  
Christy, T., & Co.  
Coleman & Co., Ltd.  
Congreve, G. T.  
Cox, A. H., & Co., Ltd.  
Curry, Henry  
Daggett & Ramsdell  
Daisy, Ltd.  
Davenport, J. T., Ltd.  
Day & Sons (Crewe), Ltd.  
Day, Son & Hewitt  
Denoual, J., & Co.  
Edwards, W., & Son  
Ellinson, Sons & Co.  
Evans Sons Lescher & Webb  
Faulding, F. H., & Co.  
Fellowes' Syrup  
Fennings, Alfred  
Ferris & Co.  
Fulford, C. E., Ltd.  
Goodall, Backhouse & Co.  
Grapelax, Ltd.  
Guy's Tonic Co.  
Henry, T. & W.  
Hovenden, R., & Sons, Ltd.  
Hughes, E. Griffiths  
Ictibylo Co.  
International Chemical Co.  
Iron-Ox Rem. Co., Ltd.  
Kay Bros., Ltd.  
Kutnow, S., & Co., Ltd.  
Lalor's, Dr., Phosphodyne  
Lambert Pharmacal Co.  
Lofthouse & Saltmer  
Lorimer & Co., Ltd.  
May, Roberts & Co.  
Menley & James, Ltd.  
Newberry, F., & Sons, Ltd.  
Odol Chemical Works  
Owbridge, W. T., Ltd.  
Pedezo Co.  
Powell, Thomas, Ltd.  
Resinol Chemical Co.  
Richards, J. M., & Sons  
Rubwil Co.  
Sangers'  
Savarese's Capsules (Evans)  
Schimmel & Co.  
Scott & Bowne, Ltd.  
Squire & Sons  
Standard Tablet & Pill Co.  
Stedman's Teething Powders  
Thompson & Capper  
To-Kalon Mfg. Co.  
Tunbridge & Wright  
Wilcox, Jozneau & Co.  
Zotos, Ltd.  
(See also DENTIFICES and TOILET ARTICLES)

**PRINTERS**

Dudley & Co.  
Ford, Shapland & Co.  
Harrison & Waide  
Smith, W. H., & Son  
Townsend, J., & Sons

**PULVELLÆ**

Warrick Bros.

**PULVERETTES**

Oppenheimer, Son &amp; Co., Ltd.

**PUMPS**

Berkefeld Filter Co., Ltd.

**QUININE AND SALTS**

Boehringer, C. F., & Soehne  
Howards & Sons, Ltd.

**RAZORS**

Auto-Strop Safety Razor Co.  
Gillette Safety Razor, Ltd.  
Hovenden, R., & Sons, Ltd.

**RENNET**

Fullwood, R. J., & Bland  
Oldfield, Pattinson & Co.

**RESINS AND RESINOIDS**

Allen, S., & Sons, Ltd.  
Allen & Hanburys, Ltd.  
Morsom, T., & Son  
Ranson, W., & Son  
Smith, T. & H., Ltd.

**RESPIRATORS**

Zimmer &amp; Co.

**RUBBER GOODS**

Davol Rubber Co.  
Burge, Warren & Ridgley, Ltd.  
Evans Sons Lescher & Webb, Ltd.  
Fecher, M. J.  
Galen Mfg. Co.  
Haywood, J. H.  
Hovenden, R., & Sons, Ltd.  
Hutchinson Co.  
Maw, S., Son & Sons  
May, Roberts & Co.  
Warne, W., & Co., Ltd.

**SACCHARIN**

Saccharin Corporation, Ltd.

**SALICIN**

Macfarlan, J. F., & Co.  
Smith, T. H., Ltd.

**SALICYLATES**

Bayer Co., Ltd.

**SAMPLE CASES**

Keane, Thomas

**SANTONIN**

Smith, B. A., &amp; Co.

**SAPONIN**

Field, C. W.

Sthamer, Dr. R.

**SAUCES**

Goodall, Backhouse &amp; Co.

**SCALE PREPARATIONS**

Morson, T., &amp; Son

**SEA SALT**

Tidman &amp; Son, Ltd.

**SEA-SICKNESS REMEDY**

Zotos, Ltd.

**SELTZOGENES**

Aerators, Ltd.

**SERUMS AND ANTITOXINS**

Allen & Hanburys, Ltd.  
Evans Sons Lescher & Webb  
Parke, Davis & Co.  
Schimmel & Co.  
Wilcox, Jozneau & Co.

**SHEEP-DIPS**

Burt, Boulton & Haywood  
Sanitas Co., Ltd.  
Tomlinson & Hayward, Ltd.

**SHOP-FITTING**

Ayrton-Graham, Ltd.  
Bowling & Son  
Cleworth, J.  
Evans Sons Lescher & Webb, Ltd.  
Josephs, P., & Son  
Maw, S., Son & Sons  
Mills, H.  
Parnall & Sons, Ltd.  
Rudduck & Co.  
Sangers'  
Southall Bros. & Barclay, Ltd.

**SOAP MATERIALS**

Chiris, Antoine

**SOAPS**

Allen & Hanburys, Ltd.  
Armour & Co., Ltd.  
Breidenbach & Co.  
Bronnley, H., & Co., Ltd.  
Chesebrough Mfg. Co.  
Cook, E., & Co., Ltd.  
Erasmic Co., Ltd.  
Hull Oil Mfg. Co., Ltd.  
Lescol Perfumery Co.  
Oakley, J., & Son, Ltd.  
Pears, A. & F., Ltd.  
Price's Patent Candle Co.  
Richards, J. M., & Sons  
Shaw, Henry & Co.  
Wright, Layman & Umney  
Yardley & Co., Ltd.

**SOAPs, MEDICATED**

Armour & Co., Ltd.  
Bronnley, H., & Co., Ltd.  
Calvert, F. C., & Co.  
Faulding, F. H., & Co.  
Lambert Pharm. Co.  
Wright, Layman & Umney

**SODA FOUNTAINS**

British Automatic Aerators, Ltd.

**SODIUM BICARBONATE**

Brunner, Mond & Co., Ltd.  
Howards & Sons, Ltd.  
Mumford, G. S.

**SOOTHERS**

Schutze, F., &amp; Co.

**SPARKLETS**

Aerators, Ltd.

**SPECTACLES**

Botwright & Grey  
Darton, F., & Co.  
Maw, S., Son & Sons  
Nitsche & Günther  
Raphael's, Ltd.

**SPHYGMOMETERS**

Hicks, J. J.

**SPIRIT OF WINE**

Burrough, J., Ltd.  
Preston's Liverpool Distillery

**SPITTING-FLASKS**

Maw, S., Son &amp; Sons

**SPONGE BAGS**

Maw, S., Son & Sons  
Schutze, F., & Co.  
Toogood, W., Ltd.

**SPONGES**

Cresswell Bros. & Schmitz  
Internl. Sponge Importers  
Kent, G. B., & Sons, Ltd.  
Maw, S., Son & Sons  
Sangers'

**SPONGIO-PILINE**

Wbitehead, R. R., &amp; Bros.

**SPRAYERS**

Corry &amp; Co., Ltd.

**SPRAYS**

Burge, Warren & Ridgley, Ltd.  
Cook, Alfred, & Co.  
Davol Rubber Co.  
Hovenden, R., & Sons, Ltd.  
Maw, S., Son & Sons  
May, Roberts & Co.  
Newberry, F., & Sons, Ltd.  
Parke, Davis & Co.

**STARCH**

Mumford, G. S., &amp; Sons

**STOPPERS**

Fletcher, Fletcher & Co.  
Stipendum Stopper Co.

**STOVES (HEATING)**

Clark, S., &amp; Co.

**SUPPOSITORIES**

Cox, Artbur H., &amp; Co.

**SURGICAL APPLIANCES**

Allen & Hanburys, Ltd.  
Bailey, W. H., & Son  
Burroughs Wellcome & Co.  
Maw, S., Son & Sons  
Quelch, H. C., & Co.  
Wood, Vincent  
Warne, W., & Co., Ltd.

**SURGICAL DRESSINGS**

Beiersdorf, P., & Co.  
Berliner, Arthur  
Burroughs Wellcome & Co.  
Dalmas, A. de St., & Co.  
Galen Mfg. Co., Ltd.  
Gimber, W., & Son  
Haynes, G., & Co.  
Leslies, Ltd.  
Liverpool Linet Co  
Macfarlan, J. F., & Co.  
Maw, S., Son & Sons  
Newsome, C.  
Robinson & Sons, Ltd.  
Southall Bros. & Barclay  
Stuart Plaster Pad Co.  
Vernon & Co., Ltd.  
Wood, Vincent  
Woolley, J., Sons & Co., Ltd.  
Wright, Turner & Son, Ltd.

**SWIMMING FLOATS**

Schutze, F., &amp; Co.

**SYNTHETIC PERFUMES**

Boehringer, C. F., & Soehne  
Bush, W. J., & Co., Ltd.  
Chuit, Naef & Co.  
Compagnie Morana  
Murray, O., & Co., Ltd.  
Reitmeyer & Co.

**SYNTHETIC REMEDIES**

Bayer Co., Ltd.  
Boehringer, C. F., & Soehne  
Boehringer, C. H., Sohn  
Hoffmann-La Roche, Ltd.  
Reitmeyer & Co.

**SYPHONS, S. W.**

Aerators, Ltd.  
Barnett & Foster  
Brefit, E., & Co., Ltd.  
Camwal, Ltd.  
Idris & Co., Ltd.

# THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, JULY 17, 1909.

## PUBLISHER'S NOTICE TO ADVERTISERS.

Advertisers are desired to take note that the advertisements of Businesses for Disposal and Wanted, Situations Open and Required, Exchange Column, &c., belong to the PREPAID CLASS, and to ensure the due insertion of the announcements the remittances must accompany the instructions. A great amount of unnecessary correspondence is occasioned by the non-observance of this regulation, and the Publisher hopes that the advertisers will assist in the quick preparation and despatch of the Supplement by strictly observing this rule. Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week.

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."

*Success  
in advertising is best secured by  
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## CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—VICTORIA STATION (Near).—Old-established Business; held by vendor over 25 years; returns between £1,200 and £1,300 per annum; net profit £389; full investigation invited; price £1,000.

2.—LONDON, S.W. (Main Thoroughfare).—Old-established Business; Retail and Dispensing; position unique; returns average £1,273, which produce a net income of £434; intending investors with £1,050 at command will find this a sound investment.

3.—LONDON (Northern Suburb).—Modern Pharmacy; established by vendor; returns between £1,900 and £2,000 yearly; well-fitted shop; stock above the average; excellent house; private entrance; price £1,200, or valuation terms entertained.

4.—THAMES VALLEY.—General Retail and Prescribing Business; returns last year £720; net profit one-third; good house; rent £60; held on lease; price £350.

5.—GREENWICH (Near).—Neglected Business; main thoroughfare; returns £12 weekly; scope for large development; illness cause of sale; to effect a speedy transfer less than the value of stock and fixtures will be accepted.

6.—LONDON, W.C.—Established Business; Retail and Dispensing; returns £20 weekly; gross profit 50 per cent.; the shop is well fitted in mahogany; no immediate opposition; price £700.

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N.B.—NO CHARGE TO PURCHASERS.

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasise the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

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9.—NORTH WALES (Health Resort).—Good-class Business. Retail, Dispensing, and Agricultural; held by vendor 20 years; returns between £600 and £700 yearly; well-appointed house; small garden; further details on application.

10.—EASTERN COUNTY.—Mixed Business, entirely unopposed, returns £1,115; net profit £250; double-fronted shop; good residence; garden; rent £35; price £450; part may remain, say £150.

11.—DERBYSHIRE.—High-class Retail and Dispensing Business; held by vendor many years; returns under assistant £700 yearly; attractive shop, double fronted; large residence; held on lease; valuation terms entertained.

12.—WORCESTERSHIRE.—Old-established Business, Retail and Dispensing, with excellent sale for own proprietors; the shop has double front, and is situated in the centre of town; roomy house; garden and warehouse; price £700.

13.—NORTH OF ENGLAND.—Modern Pharmacy, capably situated in the centre of town; returns (present rate) £1,600, well-fitted shop, fully stocked; price £1,250.

14.—CORNWALL (Market Town).—Retail and Dispensing Business; all good-class trading; returns ex. d. £1,300 yearly; scope for development; terms, lease and goodwill £150 stock and fixtures at valuation.

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SOUTH COAST.—Good General Retail Drug Stores; returning £1,200, as branch; net profit £290; price £60 and valuation (about £500); under principal capable of being greatly increased; an excellent opportunity.

CAMBS.—Unopposed Mixed General Country Retail and Agricultural; exceptionally good shop, house, and premises; old-established; low rent; returns £1,100; profitable; to effect a quick sale will accept the low price of £450; chance of a lifetime.

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3.—KENT (near Town).—Good-class Retail and Dispensing Business; returns £1,000, increasing; net profit £320; handsomely-fitted Pharmacy, fully stocked; price £760; worth attention.

4.—SOUTH COAST.—Good-class Retail; under manager; returns £1,200; good position; price only £500, or £60 and valuation.

5.—SUSSEX (Market Town).—Good-class Country Retail; returns about £850; very good position; commodious premises; price £500.

6.—OXFORDSHIRE.—Good-class Light Retail; pleasantly situated, growing town; returns £560; net profit £200; good house; large garden; price £520, little more than valuation.

7.—SURREY.—Unopposed good-class Village Business; returns over £500 under manager; low rent; well stocked; price £250.

8.—LONDON, S.W.—Good-class Suburban Retail; returns about £1,350; net profit over £400; price £950.

9.—LONDON, S.E.—High-class suburban Retail; returns £950; handsome shop, fully stocked; price £800; strongly recommended.

10.—LONDON, W.—Neglected Business; present returns about £7 weekly, was doing £12; low rent; price £160, under valuation.

11.—DEVON (Market Town).—Old-established good-class Country Retail Business; returns nearly £1,000; excellent profits; large house and garden; attractive shop; stock and fixtures worth over £850; price about £850; £300 can remain.

12.—MIDLANDS.—Good-class Retail and Dispensing; returns between £700 and £800; net profit £220; price £500.

13.—SURREY.—Good-class Business; returns over £400; plenty of scope; net profit £130; good house; large garden; price £400.

14.—KENT COAST.—Light Family Retail and Dispensing; returns £900; net profit £230; central position; price £500, or valuation.

15.—BERKS.—Good-class Retail and Dispensing; returns £1,100; good position; excellent premises; price £750, or £100 and valuation.

16.—LANCS. COAST.—High-class Retail and Dispensing; returns nearly £900; excellent position; plenty of scope; price £550.

17.—YORKS (Death Vacancy).—General Mixed Retail Business; neglected; returns over £1,000; price for quick sale about £250.

18.—MANCHESTER (Near).—Genuine Light Retail, in very good position; returns over £600; net profit £185; price £300, or valuation.

19.—LONDON, E. (Busy Main Road).—Returns £22 weekly; net profit £300 to £350; scope for increase; price £625.

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We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents, or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

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**DORSET.**—Good-class Country Business in small market town; old-fashioned prices; very few Patents; no Side-lines or heavy trade; small house and shop; in best position; net profit £300; an exceptional chance for anyone requiring an easily worked business, as nearest opposition is 10 miles; price £450; no agents. 108, 53, Office of this Paper.

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**GLOUCESTERSHIRE** (Manufacturing District).—Old-established Retail, Dispensing, and Prescribing Business for Sale; returns between £400 and £500; good profits; low rent; advertiser is buying larger business and will accept the first reasonable offer; full investigation invited. For particulars apply. 125, 3, Office of this Paper.

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**LONDON, S.E.**—For immediate Disposal, an old-established Business returning about £750; net profits well over £200; to effect quick disposal £200 would be accepted (cash down); stock alone worth more; illness sole cause of disposal. Full particulars, apply, "J." 2 Elsinore Road, Forest Hill, S.E.

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**MIDLANDS** (in large Manufacturing Town, Populous District).—Old-established Business; average takings between £6 and £7; low rent; good stock; price £100. Apply, "Statim" (123, 3), Office of this Paper.

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(continued.)

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**F**OR immediate Disposal, a genuine Business doing over £500 per annum; splendid opportunities to increase trade; full details sent on application; no agents. Write, "Scope" (127/33), Office of this Paper.

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**L**IIGHT Retail and Dispensing Business in residential London suburb, returning nearly £1,000; very handsome and convenient Pharmacy, with large house, on long lease at moderate rent; no Side-lines; every facility for thorough investigation to inquirers with £800 and upwards at command. Address, with reference preferred, "Mutatio" (121/40), Office of this Paper.

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**U**NOPPOSED; country (Warwickshire); Photographic; large studio in back; main road; rent £25; Gilbey's Agency, Tobacco, etc.; price £250; suit beginner or unqualified. 124/40, Office of this Paper.

**33** PER CENT. increase over last year; a bold-fronted Business in busy thoroughfare, to be Sold at less than cost stock and fixtures (about £400), or any reasonable offer; fit for pushing Window-dressing trade; also small Branch; £120. "Trustee" (125/9), Office of this Paper.

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OFFERS wanted for mortars and pestles, 2 No. 1, 1 No. 2, 1 No. 5, 1 No. 7, 1 No. 9; blue ointment shop-jars, canopy covers, gold labels, 17 4 lb., 15 1 lb.; shop-rounds, 40, 20, 10, and 5 oz., gilt labels; shop-rounds, ribbed green (Y.G.C.), recess labelled; 15 grn. pill-machine and finisher for three sizes of pills; dispensing-screen, fitted in front with mirror, two side cupboards, sponge-case at bottom, at back with drawers, cupboard, shelving, and lead-lined sink; mahogany desk, fitted with two drawers and cupboard in front. 122/33, Office of this Paper.

URGENT.—"Cream-Vita" Complexion-soap, "Virami" Disinfectants, "Evicto" Nursery Pomade, "Virx" Antiseptic Healing Ointment (reg.), trade-marks, designs, formulas, ad. ideas, goodwill; genuine; big profit-makers; rapid sellers; the lot £100 cash or offers. Whyte, 107 Donegall Street, Belfast.

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Owing to death of late owner the complete stock of bottles, (about 1,200) containing Drugs, Lozenges, &c., from best houses: 4 large Carboys, 4 large Specie Jars, Ointment Jars, L. & R. Homeo Case, full, Patent Medicines, large quantity best Dispensing Bottles, Pots, &c., and sundry effects. On view Monday and Tuesday, 10 to 5. A very low price will be accepted for cash to clear. **112 CAMDEN ROAD, N.W.**, opposite Post Office and North London Station. All Trams stop. (Shop to let, fitted in Mahogany.) Open as Chemist for 50 years.

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**A**DVERTISER invites correspondence from any gentleman who contemplates disposing of his Business; one preferred showing an annual profit of £350 or over; full cash value if business is sound and will bear investigation; no agents. Particulars, in strictest confidence, to "Tague" (125/30), Office of this Paper.

**I**SLAND OF WIGHT (in or near).—Wanted, genuine Business yielding a net profit of £200 to £300; Light Retail and Dispensing. 122/6, Office of this Paper.

**M**ESSRS. BERDOE & FISH are in immediate want of sound Businesses in all parts of the country, having a large number of bona fide purchasers with cash up to £2,000 waiting to be suited; intending vendors would do well to communicate with us at once. Address, 35 Jewry Street, Fenchurch Street, E.C.

**R**EQUIRED, at once, a good Business with returns of not less than £850 per annum and scope for increase; can negotiate at once. Send full details to "Urgent" (127/303), Office of this Paper.

**W**ANTED, sound Chemist's Business, with good house attached (garden if possible), in market town about an hour from London, returning £700 to £1,000; references given. Particulars, in strict confidence, to Lecefe, 10 Streatham Common, London, S.W.

**W**ANTED, double-fronted Shop in good position in South Coast town, suitable for Chemist; moderate rent; good house and garden essential; or small Business showing living net profit may be purchased. "Orion" (122/34), Office of this Paper.

**W**ANTED, Chemist's Business, with good house attached; returns £600 to £1,000 annually; either seaside health resort or market town; or Retail, Dispensing, and Prescribing Business in good locality of large town entertained; South Wales or adjacent counties preferred. Reply fully and lowest price (in confidence) to M. D. Evans, Bryn-Telio, Treherbert.

**W**ANTED, good Business in Newcastle or North of England; advertiser could join owner as Partner, bringing capital only where good return would be ensured; Wholesale not objected to; qualified Pharmacist with good experience; Photography, Pharmacy, Optical departments; fullest references given and required. Address, "Capital" (124/25), Office of this Paper.

**W**ANTED, a Retail Dispensing Business in good-class suburb of London; returns from £800 to £1,500; cash ready. Full particulars to "S. B. C." (127/22), Office of this Paper.

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**K**INGSTON-ON-THAMES.—Main road; the choice of two very fine Shops to let; either admirably suitable for Chemist's, no other in same road; commanding position, near tram junction, and in best business street in the town. Apply on premises, Gaze, 40 Clarence Street, Kingston-on-Thames.

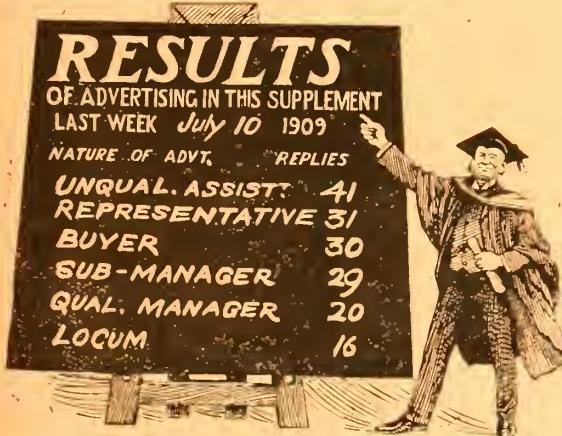
**N**ORWICH (2 miles from, in pleasant rising Suburb).—Corner Shop to let, in best position, containing 7 rooms, side entrance, outside, and garden; suitable for Chemist; rent £20 per annum to good tenant. Apply, by letter in first instance, H. Sothern, Gordon Lodge, Knight's Hill, West Norwood, S.E.

**M**ANUFACTURING Premises to Let; a mile from the City; area 6,000 ft.; thereon are 2 houses, 2 stables, 2 warehouses, a factory 4,000 ft. clear; would suit Manufacturing Chemist, Engineers; at present a Glass manufacturer; freehold; price £3,000; £200 cash, balance by instalments monthly. Bibbey, Sumner Street, Southwark

**T**O Chemists.—Excellent opening; 191 Queen's Road, Peckham; main road; just outside station; rent moderate; fixtures if required; key to view 1 York Terrace (adjoining). Agents, C. Rawley Cross & Co., Ilchester House, Uxbridge Road Station W.

## SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of advertisers who use a number or nom de plume.

## RETAIL.

**B**AKEWELL.—Qualified Assistant wanted; outdoors; no Sunday duty; close 2 o'clock Thursdays. Please state age, height, salary required (outdoors), and references, to E. G. Carrington, Chemist, Bakewell.

**B**ATH.—Messrs. Davies & John require a competent Assistant for Dispensing; first-class experience essential. Applications should contain full particulars and be marked "Assistant."

Replies to Advertisements may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

## TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that the Advertiser pays postal charges in such cases, and perhaps this reminder will obviate the necessity of the constant return of remittances which forgetfulness of this fact entails.

**B**IRMINGHAM.—Qualified Assistant wanted to assist in the Mannership; a qualified Dispenser, with a knowledge of Photography desired. Applications made to "D." c/o Charles L. Moores, 32 Navigation Street, Birmingham.

**B**LACKPOOL.—At once, Branch Manager for 3 or 4 months; young and energetic; must be an obliging and capable Salesman; preference to an Extractor. State salary (outdoors), references, etc., to Oliver L. Jackson, Imperial Pharmacy. Applications not answered in 3 days respectfully declined.

**B**OMBAY.—Wanted, qualified Assistant, under 25 years of age; passage P. & O. paid out and home; salary first year £172, second year £192, third year £212 per annum; 3 years' agreement certain. Apply, with photo and copy testimonials, to "R. L." c/o S. Maw, Son & Sons, 7 to 12 Aldersgate Street, E.C.

**B**OURNEMOUTH.—G. E. Bridge & Co., Ltd., are shortly requiring a qualified Junior as Dispenser; good experience and gentlemanly appearance. Apply, with full particulars, to W. E. Curtis, 128 Old Christchurch Road, Bournemouth.

# SITUATIONS OPEN (continued).

**C**APE TOWN.—Qualified Assistant wanted; under 28 years of age preferred; passage paid out; 3 years' agreement; salary £180 first year, £192 second year, £204 third year (outdoors). Apply, by letter only, "L.", 54 Queen Elizabeth Street, London, S.E.

**C**HELTEHAM.—R. Jeffrey & Son have a vacancy for a capable Assistant; must be a thoroughly accurate and reliable Dispenser; one only kept. Please state salary expected and usual particulars. Letters not answered in 3 days declined.

**D**EVON (Plympton, near Plymouth).—Qualified Assistant; 25 to 40; capable of taking charge; used to Mixed Cash Retail; must have good references; comfortable house near shop for reliable man. State age, height, salary, reference, etc., send photo, Shuker & Stephens, Ltd., Plympton.

**G**T. YARMOUTH.—An experienced Assistant wanted immediately, with Photographic experience. Send full particulars, with photograph (which will be returned), J. Shearman, Pharmacist, 156 King Street, Great Yarmouth.

**H**ERNE BAY.—Assistant for about two months; must be smart and gentlemanly in appearance. State age, height, reference, experience, salary required (outdoors), when disengaged, and enclose photo (to be returned), F. H. Neale, 33 and 34 Mortimer Street, Herne Bay.

**H**ERTFORD.—Assistant wanted for Dispensing and Counter work; one with a knowledge of Photography preferred. State age, height, and salary required (outdoors), references, and when disengaged, Gco. Durrant & Son, Hertford.

**I**NDIA.—A qualified Assistant wanted; 4 years' agreement; salary £200 first year and additional £20 each year; fare (P. & O. second-class) paid out and home. Apply, with photo and testimonials, to "R. L." c/o S. Maw, Son & Sons, 7 to 12 Aldersgate Street, E.C.

**I**TALY.—Wanted, smart Junior, of good appearance and address; well up in Photography, especially Developing and Printing; previous Continental experience or qualification not essential. Apply, with full particulars in first letter, 121/8, Office of this Paper.

**L**EICESTER.—Wanted, qualified Assistant for quick Store trade; short hours. Send full particulars to "Omega" (125/34), Office of this Paper.

**L**ICHFIELD (Staffordshire).—Wanted, at an early date, unqualified Assistant; easy hours; indoors; good Extractor and quick Dispenser. Apply, giving full particulars of age, experience, and salary required, with photo if possible, Williams, Pharmacist, Lichfield.

**L**ONDON, E.—Wanted, at once, qualified Manager with at least 12 months' good reference; salary 50s. (outdoors). Apply, Ballard, 393 Commercial Road East.

**L**ONDON, W.—Senior Assistant in high-class business; good Dispenser; afternoon allowed weekly; no all-night duty. Reply, stating salary (indoors) and usual particulars, to R. H. Parker, 35 Clifton Road, Maida-Vale.

**L**ONDON, N.W.—Wanted, Assistant; indoors; aged about 22 to 25; accustomed to Dispensing. Write, stating full particulars as to age, height, experience, salary required, and when disengaged, Greenish, 20 New Street, Dorset Square, N.W.

**L**ONDON, N.W.—T. H. Bateman & Co., 223 Finchley Road, N.W., have a vacancy for an Assistant; indoors; good experience in Dispensing and high-class Pharmacy essential; age not under 24. Reply, by letter in first instance, giving full particulars, and enclose photograph (to be returned).

**L**ONDON, S.W.—Wanted, immediately, a qualified Assistant; good Dispensing experience. Apply, giving age, experience, salary required, to Stickland & Co., Pharmaceutical Chemists, Cromwell Place, South Kensington, S.W.

**L**ONDON, N.W.—Manager for small branch; qualified; pleasant outer suburb, N.W.; suit one requiring an easy situation; Wednesday from 2 P.M. free; alternate Sunday duty in evening; indoors preferred; abstainer. Apply, by letter, Balchin, 27 Church Road, Huddon, N.W.

**L**ONDON, N.—Qualified Manager; outdoors; one whole day off weekly; Sunday duty light. Long, 197 Lower Clapton Road, N.E.

**L**ONDON, W.—Qualified Assistant; outdoors; used to good-class Storo business and Photography; whole day off weekly; state experience and salary required. Address, 127/5, Office of this Paper.

**L**ONDON, S.E.—Energetic, unqualified Assistant wanted immediately; outdoors; no Sunday or holiday duty; half-day weekly from 1 o'clock. State salary and full particulars to "A. J." (127/6), Office of this Paper.

**L**ONDON, W.—Wanted, for 3 weeks from August 9, Dispenser for Provident Dispensary; qualified or Hall; outdoors; hours 9 to 2 and 6 to 8; elderly gentleman not objected to. Apply, by letter, "M.", 104 Star Street, Edgware Road, W.

**L**ONDON, N.—First week in August, good Junior (not under 22), for Light Retail, Dispensing, and Photographic business. Apply, personally, or send photo (to be returned), Sinclair, Pharmacist, Church End, Finchley.

**L**ONDON, W.—Qualified Junior; indoors; Dispensing experience. State salary, etc., to Harding, The Avenue, West Ealing.

**L**ONDON, W.—Junior required, early, for high-class Dispensing and Retail; must be quick and accurate Dispenser. Apply, first by letter, stating age, height, salary, and experience, to Back, 75 Church Street, Kensington, W.

**M**ANCHESTER.—Wanted, smart, qualified Assistant, tall, good Counterman, for first-class business; outdoors; easy hours. Apply, giving age, height, experience, salary required, and enclose photo if possible, 123/7, Office of this Paper.

**O**XFORD.—Wanted, a qualified outdoor Assistant; accustomed to high-class Retail and Dispensing, with Photography. State height, age, experience, and salary required, with photo (to be returned), Cousins, Thomas & Sons, Chemists, Oxford.

**R**EADING.—Wanted, by August 2, Assistant with Minor qualification, for a small business; knowledge of Photography requisite; easy hours; early closing on Wednesday, and no Sunday duty. Apply, stating salary required (indoors), references, and full particulars (photo if possible), to F. Tunbridge, Chemist, Reading.

**R**EADING.—Gentlemanly, unqualified Assistant (aged about 25) wanted, immediately, to September 25; business is Cash Retail, Dispensing, and Photography; good hours; weekly half-holiday; very light Sunday duty; interview essential. Send full particulars, including references and recent photograph, to J. Cross & Co., Chemists, Reading.

**R**HYL, NORTH WALES.—Wanted, at once, a smart Junior Assistant for 5 or 6 weeks; used to a quick Counter trade and well up to his work; state wages, experience, and references. Apply, Vaughan, Chemist, Rhyl.

**S**HERINGHAM.—Assistant for season; knowledge of Photography; outdoors. Photo, full particulars, to Cadman, Chemist, Sheringham.

**S**KEGNESS.—Wanted, immediately, until middle of September, Assistant; unqualified; outdoors; salary £2 per week. State age, experience, and enclose photo in first letter, W. D. Hall, Pharmacist, Skegness.

**S**OUTH OF ENGLAND.—Smart, gentlemanly Assistant required; aged 23 to 30; good salary and permanency for suitable man; must possess exemplary character for honesty, sobriety, and ability as a Salesman. Timothy White Co., Ltd., Portsmouth.

**T**ORQUAY.—Assistant wanted for good-class Dispensing and Light Retail business; qualified; indoors. Apply, with usual particulars, to J. Newlyn, Pharmacist, 9 Wellswood Place, Torquay.

**W**EWYBRIDGE.—Qualified Assistant for high-class Dispensing business; indoors. Apply, with full particulars, age, salary, references, also enclosing photo, E. T. Neathercoat, Pharmaceutical Chemist, Weybridge, Surrey.

**A**SISTANT, qualified, for South Africa; Major or Minor qualification; aged about 25; 3 years' agreement; passage paid. Apply, by letter with all particulars, to Durant, Radford & Co., Ltd., 56 Billiter Avenue, London, E.C.

**D**ISPENSER; outdoors; single young man required in a general Practice 40 miles from London; permanency; good references indispensable. Full particulars to "24," c/o Messrs. Gale & Co., 15 Bouvier Street, Fleet Street, E.C.

**D**ISPENSER, wanted for a fortnight in August; private; work light. Salary and testimonials to "F. W." (127/16), Office of this Paper.

**I**MPROVER in Light Dispensing and Family business; easy hours; outdoor berth; near London; no objection to turnover Apprentice; must have first-class reference and be of gentlemanly appearance. State salary required and when disengaged, 125/39, Office of this Paper.

**J**UNIOR or Improver, one just finished apprenticeship, for Drug-store. Apply, by letter, Ridings, 5 Wickham Lane, Plumstead, S.E.

**L**OUM, qualified, wanted for 2 or 3 weeks from end of July; Assistant, newly qualified or changing places would do; near London. 125/11, Office of this Paper.

**M**ANAGER (qualified) required; good salary and prospects; must possess exemplary character for honesty and sobriety. Timothy White Co., Ltd., Portsmouth.

**M**ANAGER; young; energetic; full charge of small business; Extractor preferred; qualified; salary to commence £2 per week; outdoors. Apply, Mrs. W. H. Gelling, 209 Oldfield Road, Salford.

**M**RS. STAMP has a vacancy for a qualified Assistant; indoors. Apply, first by letter, giving particulars of experience, salary required, etc., and enclosing photo, to E. B. Stamp, Ph. Chemist, High Street, Hampstead.

**P**HARMACIST, young and energetic, preferably abstainer, to manage branch. Apply, by letter, giving usual particulars, to "Chemist," 162 Northumberland Park, Tottenham, N.

**P**OINGDESTRE & TRUMAN require a qualified Assistant; outdoors; permanent or temporary. Apply, 71 Old Kent Road, S.E.

**Q**UALIFIED Assistant; outdoors; must be well up in all branches of the business; good salary to suitable man. Full particulars as to age, height, reference, and photo, Stomham & Son, Maidstone.

**Q**UALIFIED Branch Manager for Manchester district; abstainer preferred; smart Counterman and used to Store trade. Apply, with references, to "G.," Chester House, Chester Square, Ashton-under-Lyne.

**Q**UALIFIED Manager for centre large Midland town; must be smart in appearance and quick. Salary required (with house), photo, when disengaged, and all particulars, to 125/38, Office of this Paper.

**R**EQUIRED, a qualified Assistant, indoors, for August. A. S. Willcocks, Chemist, Datchet.

**U**NQUALIFIED Junior; outdoors; high-class Dispensing and Photographic; applicant must be capable Dispenser. Also qualified Chemist for Relief: Thursdays 2 P.M.-9 P.M.; Saturdays 9 A.M.-10 P.M., alternate Sundays. Richards, Hagley Road, Edgbaston, Birmingham.

**U**NQUALIFIED Assistant, from July 26th, for 6 weeks (or more); thorough practical knowledge of Photography essential, outdoors. State age, salary, and references. Cutcliffe, Chemist, Dawlish.

**W**ANTED, qualified Branch Manager for Drug store; must be in situation at present and bear excellent references; wage £5s. per week and commission; rent free. Send full particulars of experience, age, etc., also photo, to "R. M." c/o Messrs. Oldfield, Pattinson & Co., New Bridge Street, Manchester.

**W**ANTED, qualified Manager or Partner for old-established Chemist's business. Apply, by letter, Pluck, Danbury, Chelmsford.

**W**ANTED, at once, Assistant, unqualified (indoors), age 20-4, with good Dispensing experience. State salary required, height, and references, send recent photo, if possible, Downing, 6 Station Parade, Archway Road, Highgate, N.

**W**ANTED, a competent Assistant for second position at one of the Retail Counters; tact, perseverance, and steadiness essential. State salary and give full particulars in first letter, D. P. Roberts, Chemist, 120 North End, Croydon.

**W**ANTED, for about 4 weeks, qualified Assistant; accustomed to Dispensing. Please state age, experience, and salary required, with references, to T. H. Hawley, Chemist, Cheltenham.

**W**ANTED, for a Public Hospital, a lady Dispenser (only qualified); salary £75 per annum. Applications, with copies of testimonials, to be sent to "Hospital," c/o Lee & Nightingale's Advertising Offices, Liverpool.

## WHOLESALE.

**B**Y London Wholesale House.—Laboratory hand; experienced in manufacture of Galenicals and having special and thorough working knowledge of making Emulsions on a large scale. Apply, 108/63, Office of this Paper.

**E**SSENTIAL Oil Traveller wanted for leading German house; must be acquainted with the Essential Oil business and speak French and English; he will be required to travel in England, France, Belgium, Italy, North Africa, United States, and Canada. Address, P. Samuelson & Co., 27 Mincing Lane, London, E.C.

**G**ENTLEMAN with good experience and connection among Doctors, Institutions, etc., to sell Specialty, described by the Medical Press as superior to all existing preparations; commission basis preferred. State previous experience, age, terms, to 128/61, Office of this Paper.

**J**UNIOR Assistants.—A City firm of Manufacturing Chemists has several vacancies for Junior Assistants possessing the Minor qualification; men who have London experience in the Retail preferred. Applicants should state age, experience, salary required, and when disengaged to "J. A." (108/66), Office of this Paper.

**R**EPRESENTATIVE. Drugs, Patents, Photographic, and Sundries, for North Wales and district. Give full particulars, experience, age, salary required, etc., 123/11, Office of this Paper.

**R**EPRESENTATIVES.—Liberal commission offered to men willing to carry a novel Side-line showing good profit to the Retail. Please communicate, 107/23, Office of this Paper.

**T**RAVELLER required to call upon Hospitals, Infirmaries, etc., London and district; must have previous experience; one, or more, only; the best on the market. Address particulars of experience, age, salary required, to 108/601, Office of this Paper.

**W**ET and Dry Counter hands, aged 18 to 20, required by London House; must have trade experience. State particulars of previous situations, wages expected, and if disengaged, to 106/7, Office of this Paper.

## SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid.

### RETAIL.

**L**OUM; disengaged; good reference. 123/22, Office of this Paper.

**A**s Dispenser, Assistant, or Wholesale trade; disengaged. "Hypo," 253 Elm Grove, Brighton.

**Q**UALIFIED: £3 weekly; Manager or Senior 27, tall; experienced; London. 123/9, Office of this Paper.

**A**SISTANT; outdoors; 32; unqualified; willing and obliging. "Assistant," 25 Stephens Road, West Ham, E.

**M**ANAGER or Senior, with view to succession; 33; qualified; good experience. Apply, 119/34, Office of this Paper.

## SITUATIONS WANTED (continued).

**£150** per annum required by qualified Chemist with Manufacturing experience. Apply, 123/14, Office of this Paper.

**A** SSISTANT; aged 29; good experience; Wholesale and Retail; could travel. J. Jones, 42 Lessops Road, Sefton Park, Liverpool.

**S**ITUATION; Light; Porter, Stock, Counter, Photography; married; permanency; tall; active, willing. Apply, "A Worker" (121/15), Office of this Paper.

**Q**UALIFIED; 29; tall; abstainer; disengaged 25th; Manager, Senior, or Locum; good experience. "Lithia" (122/29), Office of this Paper.

**A** SSISTANT; unqualified; 33; married; experienced in all branches; abstainer; recently in College. "Umbel" (121/36), Office of this Paper.

**Q**UALIFIED (26), first-class London and Continental experience, desires Locum or permanency; disengaged. "Chemist," 76 Hallam Street, W.

**U**NQUALIFIED (21) desires holiday engagement, July 26 to August 14; 5 years' experience; abstainer; Photography. Frank Dobson, Carlton, Wakefield.

**J**UNIOR (20), completing apprenticeship in good-class Country business, seeks experience in Dispensing and light-class trade. Smith, c/o Crozier, Kirkby Stephen.

**C**LERK (and) or Stockkeeper; thorough experience large Drug and Proprietaries Stores; shortly disengaged. W. Thom, 28 Catherine Street, Buckingham Gate.

**I**MPROVER; 19; tall; 2½ years' experience of English and Foreign Dispensing, Photography; best references; facility for study. Please apply, "A. S.," 113 Leadenhall Street, E.C.

**Q**UALIFIED Italian Chemist (38), speaking also French and German, desires to gain experience in good-class London Pharmacy. Reply, Farmacia Centrale, Piazza Scala, Milan.

**T**HOROUGHLY experienced Assistant; practical Counterman, Window-dresser, and Dispenser; permanency preferred; tall; unqualified; good references. "S.," 65 College Street, Chelsea.

**P**ERMANENCY; Locum or part-time; City and suburban experience; thoroughly competent to hold responsible position; excellent references. Forster, 5 Coleridge Road, Finsbury Park, N.

**D**ISPENSARY and Laboratory Assistant (aged 26) seeks change; Institution or otherwise; well experienced, clerical work, &c.; life abstainer; excellent testimonials. 123/32, Office of this Paper.

**A** SSISTANT; 21; disengaged; experienced, Counter, Photography, Dispensing, preparing Galenicals; excellent Window-dresser; indoors or out; good references. Forryan, Bell Street, Wigston, Leicester.

**Q**UALIFIED Assistant; young; well educated; high-class London and provincial Dispensing experience; disengaged end of month; Loudon only. "Pharmacist," Medical Hall, Clynderwen, S. Wales.

**I**MEDIATELY, competent Working Assistant; middle-aged; abstainer; temporary or permanent; 3 years' late reference; terms moderate; unqualified. "Ferri," 5 Beaconsfield Cottages, Hillingdon Heath, Middlesex.

**J**UNIOR (19), tall, seeks engagement in good-class Dispensing business; indoors; in or near London; good Dispenser; Photography; excellent reference. "F. L. J.," 19 Rutland Street, Regent's Park, N.W.

**Q**UALIFIED Chemist and Optician (F.S.M.C.) desires Management of good-class provincial business; a good salary will be expected, for which full value will be given. "Co-secant," c/o Evans Sons Lescher & Webb, Ltd., Liverpool.

**M**ANAGER or Senior; Chemist or Drug-store; liberty September 4; Lancashire, Yorkshire preferred; Dispenser, Prescriber, Extractor; could introduce Deutistry; married; 33; excellent references; permanency. Apply, "restle" (122/18), Office of this Paper.

**P**HARMACEUTICAL Chemist, 12 years in business own account, open for engagement under new Act as Manager to Store or large concern; accustomed to high-class Dispensing, also Optical work (D.B.O.A.); good knowledge of markets as buyer; able to control staff. 121/9, Office of this Paper.

**Q**UALIFIED; 25; Dispensing; permanency required. "Oxalio," Sidra, Westville Road, Cardiff.

**L**OCUM; disengaged after August 26th; best references. Apply, Follows, M.P.S., Tunstall, Staffs.

**L**OCUM, Manager; 33; abstainer; capable, dependable. Jackson, Matthews, Chemists, Royston, Herts.

**L**OCUM.—Pharmacist; disengaged; town and country experience. Price, Brynamlgw, Crowboro', Sussex.

**O**NE or two evenings weekly; Retail or Dispensing; qualified. "Chemist," 31a Oakmead Road, Balham.

**A** SSISTANT; unqualified; 32; Agricultural, Dispensing; all-round experience. "G.," 87 Grange Street, Burton-on-Trent.

**M**INOR Student seeks part or full time situation for about 6 weeks. Thomas, 294 Trinity Road, Wandsworth Common.

**U**NQUALIFIED; 40; married; Prescriber, Extractor; country preferred. "M.," 35 Humberstone Road, Chesterton, Cambs.

**L**OCUM, Manager; 39; Major; good references; experienced; disengaged 30th; outdoors. "Pharmaceutist," County Hospital, Guildford.

**N**OTTINGHAM District.—Unqualified; 24; Wholesale and Retail experience; disengaged. "F.," 48a Lees Hill Street, Nottingham.

**M**ANAGER; qualified; London or suburbs; married; middle-age; outdoors; first-class references. Davies, 43 Jubilee Road, Southsea.

**E**XCELLENT references; disengaged; energetic; Counterman, Window-dresser; unqualified. "Phylalene," 95 Waterloo Road, Aldershot.

**J**UNIOR (21) desires permanency; good Dispensing experience; Bristol or district preferred; disengaged August 23. 124/14, Office of this Paper.

**M**ANCHESTER or District.—Competent Assistant; 25; good Dispenser and Counterman; best references; unqualified. Brown, 6 Stamford Road, Altringham.

**J**UNIOR (age 20), of good address, requires situation; time for study; disengaged August 1; Liverpool or Manchester preferred. 124/10, Office of this Paper.

**S**INGLE young man (24) seeks situation; 10 years' experience in the Photographic department and Warehouse of large country Chemist. Apply, Central Pharmacy, Ambleside.

**R**EGISTERED Pharmacist requires situation as Manager or Senior; married; age 35; thoroughly competent. "Reliable," Bentley, Eaton Road, Branksome Park, Bournemouth.

**R**EQUIRED, Managership of high-class business; 35; married; qualified; disengaged; thoroughly competent, reliable and trustworthy. "Len," 28 Taunton Road, Lee, London, S.E.

**A** SSISTANT (22) desires situation; Birmingham or neighbourhood; 5 years' experience; accustomed to Store trade; moderate salary; excellent references. 124/4, Office of this Paper.

**L**OCUM; permanent or season; 26; recently attempted Minor; Dispensing, Photography; 10 years' experience; highest credentials. "Statim," 19 Arundel Street, Parkside, Nottingham.

**A** SSISTANT; 22; abstainer; good Dispensing experience; Photography; outdoors preferred; disengaged middle of August; Midlands or North. Apply, "H. S." (125/10), Office of this Paper.

**G**ENTLEMANLY Assistant; high-class Retail and Dispensing experience; competent Dispenser, smart Salesman; salary moderate for good engagement. "Photo," 63 Stephens Road, Tunbridge Wells.

**O**CTOBER.—Belgian Assistant; 23 years; high-class experience; good appearance and address; French, German, Dutch, rather good English; moderate terms; excellent testimonials and references. Maurice Philips, rue de l'acacia 3, Ghent, Belgium.

**B**Y competent man in good-class Family business, country town; accustomed to full speed, but desires to reduce pace a little only; experienced; absolutely trustworthy; good references; South preferred; middle-aged; married; unqualified. 124/23, Office of this Paper.

**Q**UALIFIED; disengaged until 6 p.m.; good references. 126/3, Office of this Paper.

**T**O Dispensers; Locum; disengaged shortly; qualified. 124/26, Office of this Paper.

**L**ADY Dispenser; qualified; permanent or Locum; recommended. "T.," 8 Highbury Hill, N.

**E**VENINGS and Sundays; qualified. "W. A. S.," 13 Telford Road, Clapham Park, S.W.

**L**OCUM; qualified; 30; reliable; disengaged; experienced. Quinn, 20 Aristotle Road, Clapham, S.W.

**L**OCUM; qualified; experienced; open for engagement. Whitehouse, 92 Knighton Lane, Leicester.

**W**ALES.—Locum; permanency; 16 years' experience. Jones, 7 Dyffryn Street, Pontlottyn, Glam.

**D**ISPENSER to Surgeons; unqualified; quick worker. "J. M.," 70 Avondale Square, Old Kent Road.

**D**ISENGAGED; unqualified; several years' experience. R. M. Lelean, 11 Princess Road, Leicester.

**J**UNIOR; London experience; tall; disengaged July 17 till September 25. 125/35, Office of this Paper.

**J**UNIOR; Mixed business; Extractor; good all-round hand; salary 30s. (outdoors). 125/21, Office of this Paper.

**P**ART-TIME, 4 or 5 mornings per week; experienced; 24. "Abstainer," 84 Astonville Street, Southfields, S.W.

**A**SSISTANT, can Manage; good Dispenser, Prescriber, Extractor; all-round experience. 125/201, Office of this Paper.

**L**ADY Dispenser requires post with Doctor or Institution; qualified; excellent testimonials. 125/5, Office of this Paper.

**J**UNIOR (22) requires Part-time or Locum in London; high-class Dispensing experience. Apply, 127/14, Office of this Paper.

**J**UNIOR; tall; steady; 3½ years' high-class Retail and Dispensing experience; well recommended. 126/28, Office of this Paper.

**M**ANAGER; 36; qualified; married; City and West-end experience; disengaged. R. Eustace, 72 Westbourne Park Villas, W.

**A**SSISTANT; 22; 5 ft. 8 in.; 7 years' experience; life abstainer; energetic, punctual. "Works" (127-19), Office of this Paper.

**A**SSISTANT; Counter, Photography, Prescribing, Window-dressing; outdoors; disengaged. Campbell, 45 Herbert Street, Cambridge.

**Q**UALIFIED; young; disengaged evenings; would do Locum from 31st inst. for one week; excellent references. 11 Seymour Road, Hornsey, N.

**A**SSISTANT; Store or General Retail; unqualified; 9 years last situation; married; London or suburbs preferred. 66 Burgoynes Road, Harringay, N.

**P**ERMANENCY; 14 years' every experience, London and provincial; highest references; unqualified. "Civility and Courtesy," 274 High Street, Rochester.

**A**S Manager and Buyer; qualified; best experience, London and country; good organiser; highest references; personal interview. "S. D." (126/29), Office of this Paper.

## WHOLESALE.

**W**HOLESALE preferred; Junior; 21; experienced; disengaged. "W. G. R.," 35 Halford Road, Fulham.

**A**S Representative, or good Agency; London; Surgical Requisites, Drugs, Sundries, or Specialities. 123/15, Office of this Paper.

**Y**OUTH (aged 16) seeks position in Laboratory; willing to make himself useful. "W. G. K.," 80 Third Avenue, Manor Park, Essex.

**W**AREHOUSEMAN, keep Stock, assist Counter; not afraid of work; used to Chemical Apparatus. "W. W.," 193 Vallance Road, E.

**W**ET Counter; young man requires situation; good experience; 8 years in West-end house. "H. D.," 147 Arlington Road, Camden Town, N.W.

**T**RAVELLER with good connection in South Wales desires additional Agency other than Drugs; part expenses and commission. 125/33, Office of this Paper.

**T**RAVELLER, young man (23), smart, with 9 years' Retail experience, desires to Represent good firm; salary and expenses. Apply, 121/39, Office of this Paper.

**E**XPERT Typist and Invoice Clerk (aged 20) seeks situation. A thorough knowledge of Drug trade; last position over 5 years, hard worker. 122/12, Office of this Paper.

**I**N Manufacturing, odd work, etc.: Retail experience, also Wholesale in Cocoa works; London, unqualified; 36; gradual wage if permanency. Simon, 43 Treherne Road, Brixton.

**D**RUGS, Drysalteries, Colours, etc.—Traveller seeks berth; full time or one with 3 or 4 days out weekly; 24; energetic; good references. "R.," c/o Bridge Farm, Mapperley, Derbys.

**T**RAVELLER; disengaged; experienced, London and suburbs; sound connection. Drugs, Sundries, and allied trades; undeniably references. J. W. Kirby, 29 Minet Avenue, Harlesden.

**E**NERGETIC young man (23), good Salesman, 8 years' Drug and Pharmaceutical experience, desires position as Traveller in Ireland. Robert Campbell, 6 Brodawel Terrace, Fairview, Dublin.

**G**ENTLEMAN, working Medical men in the North, seeks an additional commission to work amongst Chemists in detail; well-established connection. "Spellow" (125/71), Office of this Paper.

**Q**UALIFIED Chemist seeks progressive and permanent position in Wholesale house; experienced in Manufacturing, Standardising, etc.; thorough knowledge of the trade. 124/36, Office of this Paper.

**R**EPRESENTATIVE, with first-class connection in Midlands, Southern and Northern Counties, desires re-engagement with good house in Drugs or Packed Goods; highest references. 126/28, Office of this Paper.

**S**PECIALIST in Packed Goods requires a department; 10 years' experience in manufacturing, organising, creating sales, and introducing Novelties; payment by results. "Carmine" (126/4), Office of this Paper.

**G**ENTLEMAN calling upon Doctors requires additional Agency; Specialities, Proprietaries; portion expenses, commission; North-Western Counties; established connection. "Unguentum" (125/7), Office of this Paper.

**T**HE proprietors of a well-known Preparation are willing to allow their Representative to carry one other line of a non-competitive nature; small salary and share of expenses. Herbert Illingworth, 82 Arodene Road, Brixton Hill, S.W.

**T**RAVELLER, representing a well-known London firm amongst Doctors in the Northern Counties, wishes to Represent another firm (Sundries or Specials) amongst Chemists; has a very valuable connection. "North" (125/17), Office of this Paper.

**M**ANUFACTURING Chemist (F.C.S.), with extensive London experience of General Manufacturing, desires engagement in Wholesale house; Analysis, Drug Standardising, and practical knowledge of all departments. 126/36, Office of this Paper.

**W**ANTED, appointment by well-qualified Analytical and Technical Chemist; wide experience; energetic; good business man; used to control in Laboratory and works; excellent references. Reply to "Balance," c/o Street's, 36 Cornhill, London, E.C.

**G**ENTLEMAN (educated), F.I.C., Silver Medallist Pharmaceutical Society; experienced in Research, Analysis, Manufacturing, Medical, Chemical, and Physical Science; literary ability; fluent speaker; has held important positions; disengaged. "S.," 36 Goodge Street, W.

**A**S Traveller or Agent for South Coast; smart, tactful, up-to-date business man (Chemist) is open to accept an engagement with good Sundry, Soap, or Drug house on commission terms. Firms requiring a real live representative write to "Tact" (103/3), Office of this Paper.

**T**O Wholesalers only.—Do you want a reliable man to look after your interests in the Midlands? If so, I am prepared to Represent two or three houses on small salary, commission, and part expenses; or one firm only on reasonable terms; 10 years' reference. To secure interview write particulars to "Midlands" (122/1), Office of this Paper.

## MISCELLANEOUS.

**M**CADAM & TUCKNLISS, Sharedealers, 30 Tranquill Vale, Blackheath, S.E. Telephone 81a Lee Green.

SHARES FOR SALE (free of commission, subject).—100 Allen & Hanbury "A" 6 per cent. Preference, 24s. 10*½*d.; 100 C. Ash Prefs., 23s. 4*½*d.; 83 Camwal Ordinary, 1s. 7*½*d.; 20 Evans Lescher Preference, £5 3s.; 5 International Sponge Prefs., 10s. 3d.; 100 Quinine Bitters, 10s. 9d.; 140 Idris "A" 6 per cent. Preference, 7s. 3*½*d.

WANTED (subject).—100 Camwal Preference, 5s.; 100 Lewis & Burrows Preference, 10s. 9d.; 100 International Sponge Ordinary, 7s. 6d.; 200 Sanitas Ordinary, 2ls. 6d.

List of shares for sale and wanted sent free on application. Bankers, London and County. Established 1898.

**SECOND-HAND SHOPFITTINGS.**—Condition excellent, and will be re-polished as new; mahogany counter with glass cases in front, 18 ft. long, price £10; 10 ft. 6 in. mahogany wall-case, in two heights, with mirror recess in centre, £12 10s.; 17-ft. mahogany serving-counter with glass cases in front, £9 15s.; 10-ft. mahogany wall-case, plate glass, with plate-glass fronted sponge and sundries drawers under, £15; several other useful bargains; also complete set of mahogany fittings suitable for branch, £30. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.



WE HAVE WHAT YOU REQUIRE, Drug Fittings, Counters, Wall-cases, Dispensing-screens, Perfume-cases, etc., in almost all sizes; second-hand; condition first-class; prices reasonable. Write for sketches and details giving approximate sizes, or call and inspect. RUDDUCK & CO., 262 OLD STREET, E.C.

SPECIALLY cheap second-hand fittings for a shop, comprising 1 12-ft. fixture, with gold-labelled drawers, cupboards, shelving, and cornice, 8-ft. counter, 6-ft. dispensing-counter, 6-ft. mirror centre dispensing-screen, desk, counter-case, 250 stopped rounds, ointment and pill jars, the lot for £18; 1 6-ft. bent-glass front counter case, 75s.; 1 6-ft. mirror-centre dispensing-screen, 50s.; 1 4-ft. dispensing-screen, 40s.; 250 stopped rounds, ointment and pill jars, 80s. R. TOMLINSON & SONS, Bond Street, Constitution Hill, Birmingham.

**TO APPRENTICES, JUNIORS, ETC.**—If you wish to pass the Preliminary quickly and with little trouble, write to Mr. Charles Harker, who will coach you by post; thorough systematic teaching; numerous successes in 3 and 6 months; special attention given to those of neglected education; 85 per cent. recent successes; terms very moderate. Charles Harker, 239 Chapter Road, Cricklewood, London, N.W.

## "JUST WHAT I WANTED;

you touch upon every point," wrote a Pharmacist this week, in my letter on Horticultural Specialities. Are you interested in that, also in Business building? Will send letter on Horticultural Specialities which gives formulae and directions for making Weed Killers (non-poisonous and poisonous), Insecticides, Chemical Fertilisers, Fumigants, Washes, Worm Killers, &c., for £1. To Pharmacists only. Only one in a district supplied. Booklet "How to Increase Your Business," post free on receipt of p.c.

J. R. B. ALLISON, Pharmacist & Business Specialist, RETFORD.

# Exchange Column—Bargains.

## FOR DISPOSAL.

### APPARATUS.

"CONSOL" combined aerator and syphon-filler; new May 1908; perfect order. Particulars, DAY, 5 Prince's Road, Wimbledon.

### BOOKS AND PERIODICALS.

BOOKS.—Attfield's "Chemistry," Bloxam's "Chemistry," Valentine's "Qualitative Analysis," Frankland's "Lecture Notes" (2 vols.), and others; list sent. CAMMACK, Wolseley Road, St. Helens, Lancashire.

### DENTAL.

DENTAL chair and artificial-teeth specimens; five guineas; bargain. "DENTALIS," 34 Trinity Street, Boston.

### FORMULÆ.

BOOT polishes (black, brown) formula for sale. FRANCE, 42 Vartry Road, London.

### OPTICAL AND PHOTOGRAPHIC.

SPECTACLE and pince-nez frames, lens measure, eleven dozen pairs lenses; deposit; approval. "OPTOL" (124/31), Office of this Paper.

FOR sale, Hardy ophthalmometer; latest pattern; new November 1907; wired for 100 volts; £10 carriage paid. 104/9, Office of this Paper.

### PROPRIETARY ARTICLES.

40 TINS containing 1 doz. Howard's 8-pint Seltzogene charges; what offers? 126/34, Office of this Paper.

INGLUVIN, bi-palatinoids, papain, liquid peptonoids; patents. Send for list, MATTHEWS, Royston, Herts.

### SHOP FITTINGS.

WHAT offers?—65 20-oz., 43 36-oz. narrow and wide mouth shop-rounds; 12 4-lb. domed ointment-jars; 13 30-oz. syrup bottles; large and small pestle and mortar. COLMAN, 7 Gresham Street, E.C.

### SHARES.

SHARES for Sale. See above.

### MISCELLANEOUS.

SET 9 plated dental forceps, best make, 27s. 6*½*d.; 20 1s. tins Rigolot's mustard paper, 3s. lot; good set metric weights, 10s.; medical battery (Scholl), 10s.; retouching desk, 6s.; Walsham's "Surgery," 3s. 6d.; Vierordt's "Medical Diagnosis," 4s. HICKMAN, Abbotts Road, Southall.

SPONGES, grass, 50 lbs., 32s., sample doz. 1s.; 500 Turkey sponges, worth 6d., for £6 8s., sample doz. 2s.; 3 doz. 6d. wash-leather sponges for 7s. 6d., sample doz. 3s.; 50 honeycomb sponges, worth 1s. 6d., for 33s. 4d., sample doz. 9s.; all post and carriage paid; cash with order. HEAP, Chemist, Hanley, Staffordshire.

### WANTED.

TO hire good trial-case. State terms, 17 Hester Street, Northampton. COPY of Gorham's "Tooth Extraction." OAKLEY, 14 Canonbury Square, N.

CHECK-TILL; must be in good condition. State size, W. DEACON, Chemist, Bridgwater.

COUNTER-CASES.—Upright, silent salesman, tablet, odd wall casing; cheap. PORTER, Irvinestown.

SUPPOSITORY-MOULD for 12 or 24 15-grain; also counter-case; cheap. GORDON, Chemist, Scotstoun.

COPY of James L. Hatrik & Co.'s surgical-instrument catalogue, 1906 edition. 126/33, Office of this Paper.

DISPENSING-SCALES, utensils, anything useful; exchange bull's-eye camera, surplus stock. LOBB, Willesden.

MINOR, Major, Chemists' books.—Send prepaid for valuation; cash offers per return. GOWER, Bookseller, Waterloo, Liverpool.

TO purchase formulae for ginger-ale; must be similar to some of the well-known Belfast brands. "CHEMIST," 44 Cedar Road, Cricklewood, London.

A FORMULA of a good shaving-soap, to be manufactured in stick form; a satisfactory figure would be paid for the right formula. Address, HENRY WEYL, 38 Holborn Viaduct, London, E.C.

### ADDRESSES WANTED.

ADDRESS of English agents Dr. McLaughlin's American electric belts. ROSSITER, Chemist, Tiverton.

## How to Treat Travellers.

1. Traveller after traveller comes into the shop; the day is far advanced and not a stroke of your regular shop work has been touched. Is it polite or etiquette to tell a man, who you know may have come to the town specially to see you, that you cannot be seen?

2. You are working single-handed. A prescription is brought in and promised for fifteen minutes. Immediately a traveller walks in, and, seeing no customer in the shop, starts to talk and unpack samples. Is it the proper thing to tell the traveller that his presence is inconvenient, or to let the customer wait when the medicine is called for?

THESE questions were put by a chemist in the C. & D., May 15, and we invited replies, which we are now printing as space permits.

My experience is, it never pays to be uncivil or independent in business. Treat your fellow-men with courtesy and consideration and then you will command those qualities. With regard to (1) Probably the traveller is oblivious to the circumstances as stated or I am sure he would not intrude. I would certainly tell him the circumstances, and I have no doubt he would not press for an interview, but call again. (2) Most travellers are anxious to avoid stopping business; on telling them the pressing conditions they will gladly step aside. In this case I would ask him to wait till I had executed the urgent business and then attend to him. I have often done this, and it works well. It is right to make the inconvenience known to the traveller. Do the best that is in your power to do for travellers or representatives and they will do all that is in their power to do for you.—L. J. TEIFFEL.

(1) We should make it a rule "to do as we would be done by," in a calm and civil manner (as heat and anger only accentuate the difficulty). Shop work is sufficiently adjustable to allow at least a minute or two for the exchange of courtesies and an attempt to give an order or promise to send one; or, if not this, a polite and friendly negative. (2) In the case of prescriptions and other urgent duties, a word of explanation and a wish pleasantly expressed are sufficient to prevent undue intrusion, for travellers as a class are good fellows and reasonable men. There are other obvious methods of dealing with those who are exceptions. I have proved the above in actual business experience.—T. H. HADEN (Manchester).

When working single-handed, have town travellers' orders written out so you have only to hand the list out when they call, with a remark about the weather or business if you have no more time to spare. When commercials from further afield are advised, investigate your stock as soon after receipt as possible, and let them know they are to inquire, if practicable, as to a suitable time to call. Stipulate firmly but politely that unless they have something original to show or an old line at a special price you cannot listen to their solicitations, and even then only at your pleasure. The latter is the best method of treating representatives breaking new ground. When a man calls and you intend to do business with him, ask him into the back shop, as you can easily leave him there to attend to the counter. If some dispensing on hand, give him the C. & D. market reports to read before he begins to talk prices.—DAVID DUNNET (Glasgow).

Put yourself in their position, and treat them as you would be treated. Treat them civilly. They are men. They are out to do their best for their firms and for themselves, and in most cases for you. You are in business to do the best for yourself. When they come into your shop, should you owe an account, ask for it and pay it. That is business. If you do not want anything, tell them so courteously. Do not say, "Well, I don't think there is anything I want to-day." That gives them the opening they want. Never let customers wait for travellers. If you do, you will soon not require travellers. It is from the customers we both derive our living. Recently a traveller insisted on showing his samples. I told him not to. He persisted. I had an engagement. I have a back door. I put on my hat. I went out at the front and came in at the back. I got a start made at work again. My apprentice talked to him till he packed up.—F. WALKER.

(1) If "Pestered" had received notice that the traveller would call (usually a week before), he has had time to "look round" and should have his list of "wants" written down, when he could give his order quickly. He can explain he is very busy, and will look at any new lines next journey. The traveller will be only too pleased to get out of his sight with even a small order inside five minutes. If he is not buying and he knows the traveller is coming to see him specially, stop him with a postcard and save his time and railway fare. (2) Ask the traveller to call later. He will be delighted. Travellers are a most obliging class and hate seeing "clients" when busy.—G. G. S.

## Prescription Problem.

THE response to the prescription-reading problem which was given in the Coloured Supplement of THE CHEMIST AND DRUGGIST, June 26, has not been large, nor has the success achieved by the competitors been conspicuous. The script was certainly a difficult one to read, the second and third ingredients being the *pons asinorum* to many. For the second ingredient the following are some of the solutions sent in: Pulv. rhei, alb. carbon, am. carbon, alocharbon, olei carui, P. calumbi, clater, com., chlorali, calc. carbon, chloreton, chlorobrom, pot. bicarb., ol. crotonis. A good many sent in "sacch. alb." for the third ingredient, while only two mistook the emol keleet for "emuls. petrol." and "tinct. iodi." The correct solution we believe to be as follows:

Baby Colwell

Hydra(n)g Subchlor gr  $\frac{1}{2}$

Ply Carbon gr  $\frac{1}{4}$

Sac(e)h Anisi gr  $\frac{1}{2}$

ft pulv mitte viii

Sig. 1 2<sup>(1)</sup> horis

9<sup>1</sup>

Emol. Keleet.

J. M.

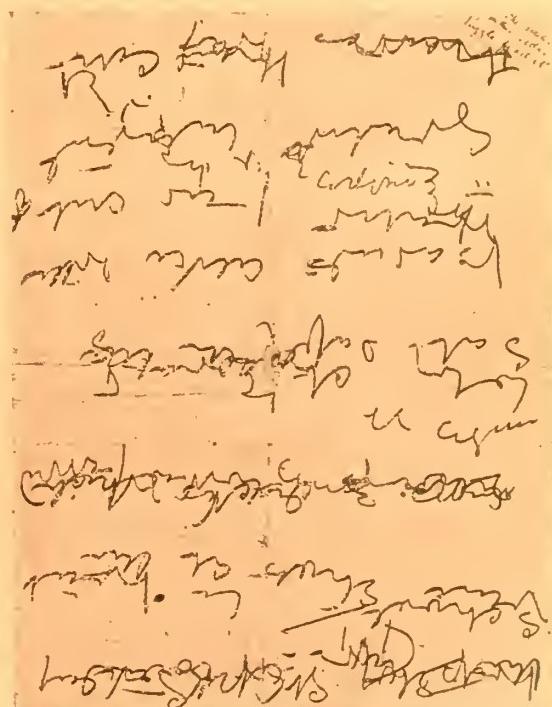
No competitor sent in a perfectly correct solution, but the following are each awarded a copy of "The Chemists' Medical Dictionary," the only faults being the spelling of "hydrarg." and "sacch.," which in the original are mis-spelled:

W. E. FLENLEY, 164 Anfield Road, Liverpool.

J. J. PARTINGTON, 19 Lutterworth Road, Northampton.

A. H. VEALE, 40 Hampton Park, Bedlam, Bristol.

The next problem is the most complicated which we have yet submitted. Competitors will please transcribe the prescription only:



The original is written in pencil. Postcard replies should be sent not later than July 21.

CHINESE WHITE WAX.—Last year was a poor one for white wax in China, owing to the extended use of kerosene and foreign candles, and prices in Shanghai were unremunerative. The Court at Peking, however, still requires a considerable quantity annually. The exports from Chun-king (through the Imperial Maritime Customs) were 6,152 piculs in 1908 and 9,004 piculs in 1907.

## The Week's Poisonings.

THIRTEEN is the total of poisoning cases recorded during the week, of which two were by misadventure. At the inquest regarding the death of Frederick Hobbs at Plumstead, who committed suicide by taking prussic acid, it was shown that the legal requirements had been fulfilled; but the Coroner said it appeared that if people were sufficiently determined they could obtain poisons, whatever the restrictions were on their sale. The man Hobbs had told "a cock-and-bull" story and the Coroner went on to advise chemists to tell customers who desired poisons to kill an animal to bring it to them. Suicide during temporary insanity was the verdict returned.—Robt. Grisewood (66), a retired L.C.C. analyst, was found dead at Finchley from an accidental overdose of morphine.—A Hove invalid named Jessie Murray (65) died from the effects of laudanum-poisoning. Dr. Parry deposed at the inquest that the deceased took sulphonal for insomnia, and apparently had taken laudanum for the same purpose. The jury, however, returned a verdict of suicide during temporary mental derangement.—At the inquiry into the death of Mr. Thos. Land Brown, chemist and druggist, 7 Market Square, Birmingham, Dr. Vincent Howard deposed that the deceased gentleman had suffered from Bright's disease during the last four years. He had prescribed certain drugs for insomnia, but Mr. Brown had taken self-prescribed soporifics also. When called in on the morning of his death he found deceased suffering from laudanum-poisoning, but this was the first occasion he had known Mr. Brown to take laudanum. Mr. Wm. Grace, an assistant with Mr. Brown, stated that Miss Brown handed him the shop-bottle of laudanum which was found in the bedroom. He could not account for about 6 oz. which had been used recently. The jury found that death was due to misadventure owing to an overdose of laudanum.—Mary E. Vassey (46), the landlady of the Griffin Inn, Stembrook, took a large dose of carbolic acid for suicidal purposes with fatal results.—A tramp named Owen Craig (47) committed suicide at the Ballycastle Workhouse by taking carbolic acid. He purchased sixpennyworth of the poison for this purpose from Mr. R. Ramsay, registered druggist, Quay Road, Ballycastle, who had complied with the necessary regulations.—An unknown man, who had given his name as Thompson, poisoned himself in a Southend lodging-house by taking oxalic acid.—An unknown woman who was found on Putney Common also died from the effects of taking this poison.—The same lethal agent was used by a Chiswick commercial traveller named John Thatfield (31), who was found dead on Wandsworth Common.—Spirit of salt was the agent used for suicidal purposes by Emma Lane (68), widow, Shortlands.—Annie Bishop (25), housemaid, committed suicide at Dunsfold by taking the contents of a bottle of poisonous liniment. Dr. J. K. Willis deposed that death was due to narcotic poisoning.—Arthur Hargreaves died at Acerington from the effects of "acid" poisoning, but the kind of acid taken is not stated.—Henry Peake, cabinet-maker, took a quantity of poison with suicidal intent. Drs. Frier and Chapman stated at the inquest that the poison, which was said to be a colourless liquid, was an alkali, but they were unable to identify it.

## Information Wanted.

Inquiries for the names and addresses of manufacturers, or other trade information, not traceable by reference to the advertisement-pages of "The Chemist and Druggist" and the "C. & D. Diary," or not filed in our private register, are inserted here free of charge. Postcard or other replies to any of the subjoined inquiries (addressed to the Editor, "The Chemist and Druggist," 42 Cannon Street, London, E.C.) will be esteemed.

- 105/74. Makers of the "Arina" brand dressing combs.
- 106/69. What is "Townsend Softener," and where can it be obtained?
- 97/34. London agents for Downing's pills and for Haydock's pills.
- 105/33. Who supplies round moulds for home-made peppermint creams?
- 103/56. Address of the manufacturers of "Zoot's fine magnesia alba," "Zoot's hongroise" and other preparations.

## Colonial and Foreign News.

**NORWEGIAN PHARMACY LAW.**—The Norwegian Storting has passed a new Pharmacy Act. The new law makes but little alteration in the regulations at present in force. The introduction of personal grants has been abandoned. According to the value of his transactions the pharmacist will have to submit to a "business tax," the proceeds of which will go to the public funds for pharmaceutical education and for grants in relief of needy pharmacists. By forty-eight votes to forty-three the Storting rejected the proposed introduction of an examination of higher standard as the qualification for admission into the pharmaceutical profession. The proposed qualification had been unanimously approved by the Norwegian Apothecaries' Association, the Pharmaceutical Association, and the Government Commission.

**PHARMACY IN SYRIA.**—The U.S.A. Consul-General at Beirut states that the imports of drugs amount to about 60,000*l.* annually, the bulk being obtained from Germany, especially as regards fluid extracts, alkaloids, quinine, glassware, bottles, jars, fittings, etc. Great Britain supplies Epsom salt, tabloids, soaps, and druggists' sundries. France leads in proprietary medicines, perfumery, and sundries. Switzerland sends vaccine, and Italy sulphur and capsules. The principal articles coming from the United States are quinine, chloroform, fine scaps, etc. Messrs. Parke, Davis & Co. opened a general agency in Beirut, for Palestine and Syria, in 1908, and sub-agencies were established in Jerusalem, Damascus, and Aleppo. Surgical appliances, thermometers, trusses, suspensors, feeding-cups, nursing-bottles, etc., are supplied by England, France, and Germany. American alimentary products, malted milk, and infants' foods are imported from London. Beef extracts, phosphatines, etc., come from Continental Europe.

**U.S. TARIFF BILL.**—The Senate has adopted the maximum and minimum provisions of the Tariff Bill which empower the President to impose an additional tax of 25 per cent. on countries which, in his opinion, are discriminating against the United States. On the representations of Mr. Root the tax on tea and coffee was deleted from the Bill. The Senate refused to put a duty on arsenic, although repeatedly urged to do so by a prominent arsenic-mine owner. On July 8 the Bill was sent to the House of Representatives. The measure will now be submitted to a conference of both Houses, consisting of eight members of the Senate Committee on Finance and nine members of the House of Representatives Committee on Ways and Means. The Senate made 847 amendments to the original Bill as passed by the House of Representatives. It is alleged that in the vast majority of cases the changes show an increase. The discussion by the Committee will probably last a fortnight or three weeks, after which it will go to Mr. Taft for signature.

## Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Tuesday, July 20.

Federation of West Riding Chemists' Associations, Grand Restaurant, Boar Lane, Leeds, at 7.30 P.M. Special meeting.

**FEDERATION OF LOCAL PHARMACEUTICAL ASSOCIATIONS.**—Mr. Edmund Jones, Hon. Secretary of the Federation, intimates that the Executive have arranged to hold an important meeting of delegates from affiliated Associations and others interested at the Armstrong College, Barras Bridge, Newcastle, on Friday, July 30, at 9.30 A.M. Mr. W. L. Currie, Chairman of the Federation and Vice-President of the Pharmaceutical Society, will preside. The main topic of the meeting will be "Organisation." The scheme of the Plymouth Association, and also that of the Edinburgh Association for the reconstruction of the Federation, will be considered and discussed.

**SYRINGE CASES**

May, Roberts &amp; Co.

**SYRUPS, FRUIT**

Idris &amp; Co., Ltd.

**SYRUPS, MEDICINAL**Chemists' Co-operative Wholesale  
Fellows' Med. Mfg. Co.  
Fletcher, Fletcher & Co.  
Squire & Sons**TABLETS, COMPRESSED**Allen & Hanburys, Ltd.  
Asche, C. F., & Co.  
Bishop, Alfred, Ltd.  
British Drug Houses, Ltd.  
Cox, A. H., & Co., Ltd.  
Davies, Sons & Co.  
Duncan, Flockhart & Co.  
Evans Sons Lescher & Webb  
Howards & Sons, Ltd.  
Jackson, E. E.  
Lloyd, T. Howard, & Co.  
McKesson & Robbins  
Parke, Davis & Co.  
Pill, Tablet, & Capsule Alliance  
Potter & Clarke  
Standard Tablet & Pill Co.  
Thompson & Capper  
Wand Manufacturing Co.  
Warner, W. R. (Newberry)**TABLOID PRODUCTS**

Burroughs Wellcome &amp; Co.

**TARTARIC ACID**British Drug Houses, Ltd.  
Boehringer, C. H., Sohn**TELEPHONE CAPS**Jeyes' Sanitary Compounds Co.,  
Ltd.**TINFOILS**

Erhardt, H. &amp; Co., Ltd.

**TIN BOX MAKERS**Goodall, Backhouse & Co.  
Hantley, Boorne & Stevens**TOBACCO**

Singleton &amp; Cole, Ltd.

**TOILET PAPER**Ford, Shapland & Co.  
Newberry, F., & Sons, Ltd.  
Townsend, J., & Sons**TOILET ARTICLES**Allen & Hanburys, Ltd.  
Armour & Co., Ltd.  
Anto-Strop Safety Razor Co.  
Beetham, M., & Son  
Berliner, Arthur  
Blackie, R.  
Breidebach & Co.  
Bronnley, H., & Co., Ltd.  
Burroughs Wellcome & Co.  
Chesebrough Mfg. Co.  
Christy, T., & Co.  
Cook, E., & Co., Ltd.  
Daggett & Ramsdell  
Daisy, Ltd.  
Edwards' Harleae Co.  
Erasmio Co., Ltd.  
Encryl, Ltd.  
Harker, Stagg & Morgan  
Hovenden, R., & Sons, Ltd.  
John Strange Winter  
Lloyd, A., & Co.  
Lloyd, A. S. (Hovenden)  
Lorimer & Co., Ltd.  
Newbery, F., & Sons, Ltd.  
Odol Chemical Works  
Papier Poudré, Ltd.  
Pharmazentische - Industrie  
Gesellschaft (Offenbach).  
Quelch, H. C., & Co.  
Reuter, R. J.  
Richards, J. M., & Sons, Ltd.  
Rowland, A., & Sons  
Sangers'  
Sanitas Co., Ltd.  
Shaw, Henry & Co.  
Standard Tablet & Pill Co.  
Te-Kalon Mfg. Co.  
Toogood, W., Ltd.  
Velvia Toilet Co.  
Woolley, J., Sons & Co., Ltd.**TOOTH STOPPING**

Stevens, P. A.

**TRADE-MARKS AGENTS**Barker, R. W.  
Ford, Shapland & Co.**TRUSSES**Bailey, W. H. & Son  
Haywood, J. H.  
Wood, Vincent  
Woolley, J., Sons & Co., Ltd.**TUBED SPECIALITIES**Christy, T., & Co.  
Sangers'**TUBES, COLLAPSIBLE**

Lnmley, L., &amp; Co., Ltd.

**TURNED WOOD BOTTLES  
AND BOXES**

May, Roberts &amp; Co.

**VACCINES**Allen & Hanburys, Ltd.  
Evans Sons Lescher & Webb**VALUERS**Alexander, H. P.  
Baker, P. C.  
Berdoe & Fish  
Brett & Co.  
Orridge & Co.  
Tomlinson, T., & Son**VASELINE**

Chesebrough Mfg. Co.

**VERMIN-KILLERS**Battle, Son & Malthy  
Danzsz. Virns, Ltd.  
Evans Sons Lescher & Webb, Ltd.  
Harker, Stagg & Morgan  
Kay Bros., Ltd.  
Sanford & Son**VETERINARY MEDICINES**Chesebrough Mfg. Co.  
Day & Sons (Crewe), Ltd.  
Day, Son & Hewitt  
Edwards, W., & Son  
Elliman, Sons & Co.  
Harvey & Co., Ltd.  
Joha, H. C.  
Lloyd, T. H., & Co.  
Tomlinson & Hayward, Ltd.  
Walker, Troke & Co.  
Wand Mfg. Co.  
Wilson Vet. Mfg. Co.  
Young, W. F.**VINEGAR**

Grimble &amp; Co.

**WATERS, CONCENTRATED**Chemists' Co-operative Wholesale  
Robinson, B., & Co., Ltd.**WEED-KILLERS**Bart, Boniton & Hayward  
Tomlinson & Hayward**WHOLESALE DRUGGISTS**Allen & Hanburys, Ltd.  
Alliance Drug & Chem. Co.  
Averton, Salmon & Co.  
Bass Bros. & St. Ives, Ltd.  
Bell, John, H. H. & Lucas, Ltd.  
Blackie, R.  
British Drug House, Ltd.  
Burroughs Wellcome & Co.  
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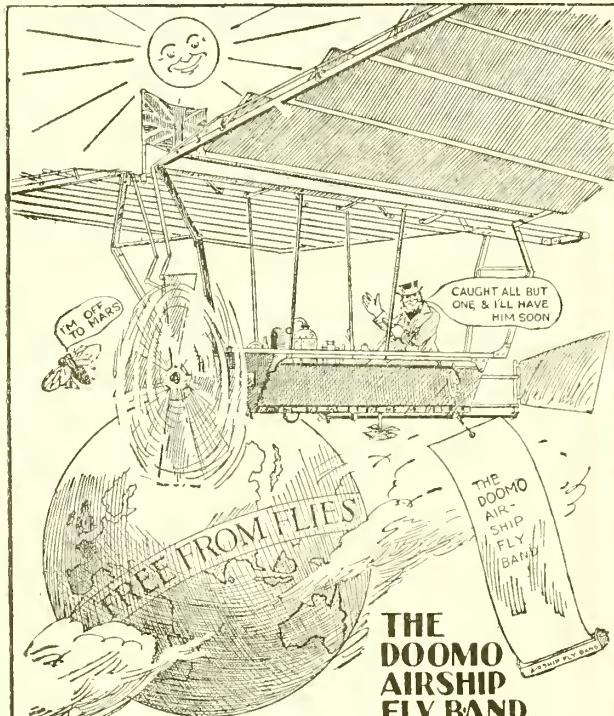
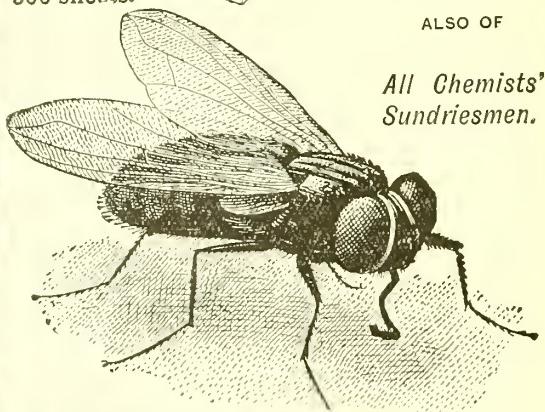
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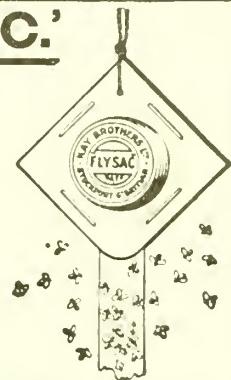
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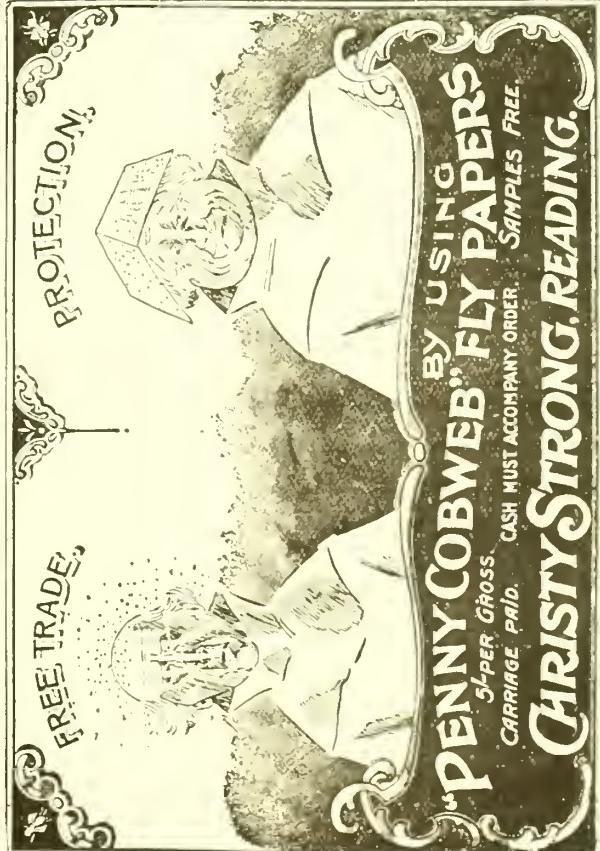
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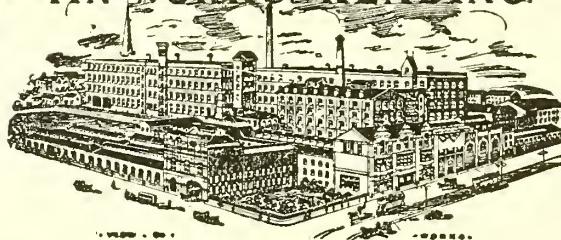
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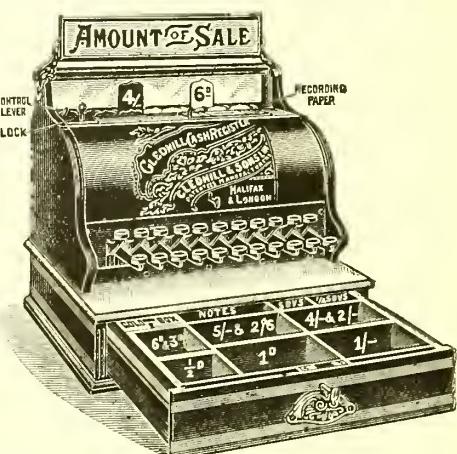
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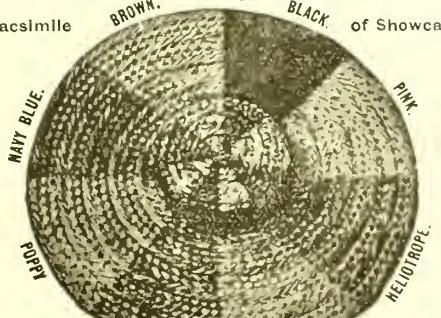
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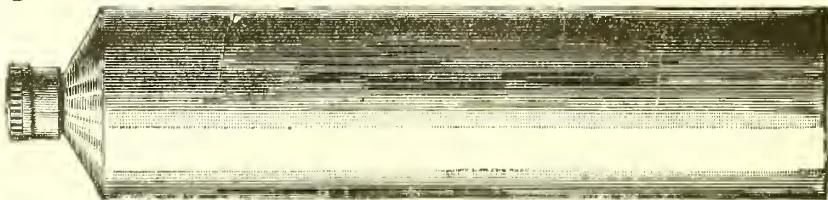
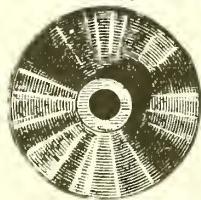
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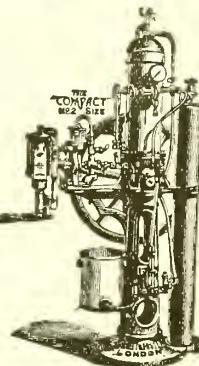
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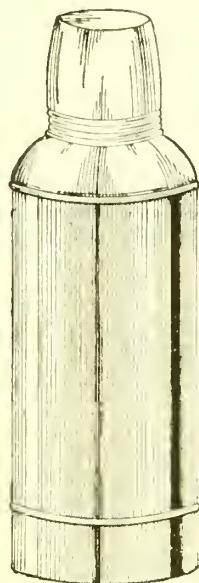
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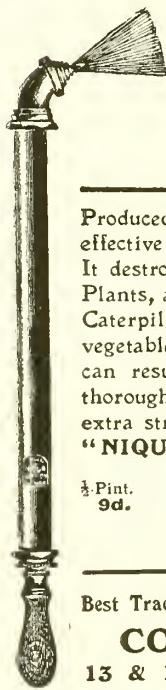
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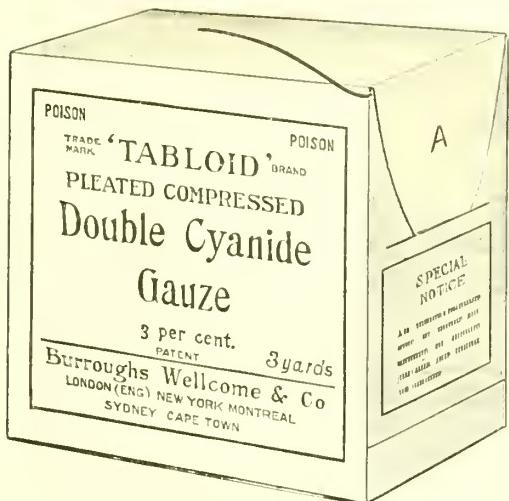
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and of  
British Pharmacists throughout the Empire.  
ESTABLISHED 1850.

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THE Publisher desires to remind advertisers that he is completing his arrangements for the publication of the Jubilee Number and Summer Issue of THE CHEMIST AND DRUGGIST, which falls on the last Saturday of this month, July 31. He particularly desires that those who have taken space in the number, and have not yet sent in their "copy," will take this as a reminder to act upon at once. Effective setting of advertisements constitutes a goodly part of their selling-power, and the setting takes time to do as well as thought to devise. This reminder is equally applicable to those who have not taken space, but propose to. They cannot get into communication with the Publisher too soon. The Telephone Number is "852 Bank"; ask for the Publishing Department. The Telegraphic Address is "Chemicus, London," and such a message as "Reserve one page in Jubilee Number" will suffice, if it is followed up by postal instructions to the Publisher of the C. & D., 42 Cannon Street, London, E.C.

## Summary of the Week.

#### British Pharmaceutical Conference.

The fourth of our series of illustrated articles on this month's Conference-ground deals with the route of the all-day excursion on July 29. It is illustrated, and begins on p. 79.

The Executive of the Conference met last week and made the final arrangements for the meeting. The list of papers and authors is appended to the report (p. 81).

The Canadian Pharmaceutical Association has approached the Executive in regard to B.P. revision, and the letter of Mr. John Hargreaves, who writes on behalf of Canadian pharmacists, is a document of some note in respect to Imperial pharmaceutical relations (p. 82).

Edinburgh chemists propose that the Federation of Local Pharmaceutical Associations should be merged into the Conference (p. 87). This will be considered at the annual meeting of the Federation in Newcastle on July 30. (*Col. Supp.*)

#### Colonial News.

The Transvaal Legislative Assembly has made progress in amendment of the Colonial pharmacy law, one change being to restrict the retail sale of chlorodyne (p. 75). From Australia come several notes of interest. Dr. Mason, the Chief Medical Officer for New Zealand, is coming to reside in London on behalf of his Government (p. 74).

#### Correspondence.

Mr. Blair, of Cork, objects to companies in Ireland being recognised as pharmaceutical chemists, unless all directors are so. The Secretary of the Pharmacists' Parliamentary Committee explains how matters stand, and asks for support. Pharmacists' assistants have appealed to the Pharmaceutical Council not to register apothecaries' assistants as chemists and druggists. Mr. Murison is not allowing Mr. Lloyd George to forget the necessity for a medicated wine licence for chemists. These are a few of the subjects (p. 98).

#### Examination Matters.

At the meetings of the Pharmaceutical Boards of Examiners held in London and Edinburgh this month twelve candidates passed the Major examination and 116 the Minor. Their names are on p. 78.

New forms of certificates were issued to the successful candidates, which a correspondent describes as "simply atrocious, and like a dog-licence." The Minor certificate is not worded in accordance with Section 6 of the Pharmacy Act, 1868, but is phrased in the manner laid down by Section 4 of the 1908 Act for apothecaries' assistants and the like. For particulars see p. 84.

Some of the examiners, probably the majority, strongly object to the new departure as being at variance with the Statutes and utterly unworthy of the Society. See also a letter on p. 98.

#### Home News.

The Council of the Pharmaceutical Society of Ireland had little business to do last week, but it included an intimation from the Castle that a conviction was sustained (p. 77).

Among the names in the obituary column are those of Mr. J. M. Furness (Sheffield) and Mr. John C. Pottage (Edinburgh). Portraits and brief biographies of both are given on p. 92.

The British Dental Association has failed to establish its case under the Dentists Act against the directors of the London Hygienic Institute (p. 76).

#### Parliamentary.

Several questions and answers in regard to the spirits clauses of the Finance Bill have an interest for chemists, who are requested not to let the licensee-duty objections drop. Another question about the registration of dispensers as chemists and druggists has been put (p. 88).

#### Trade Report.

Market-alterations are fairly numerous this week, and include an advance in glycerin, strychnine, castor oil, technical olive oils, and Japanesio refined camphor. Bergamot and orange oils are firmer. Codeine and salts are 5d. lower. China crude camphor, ammonia sulphate, tragacanth, guineagrains, and milk-sugar are easier. The German Bromine Convention has been renewed for five years. A large auction of first and second hand drugs is fully reported on p. 94.

## Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

### SUMMER CONTRIBUTIONS.

#### Dry-way Reactions in Chemical Analysis.

##### SUBLIMATION-TUBE TESTS (continued).

(Headings 1, 2, and 3, in previous article: "C. & D.", July 10, 1909, p. 38.)

**4. Volatile products are given off.** If these products are gaseous or liquid at ordinary temperatures, they are practically always products of decomposition. If they are solid, they may be of the same composition as the original substances (or of some of the ingredients if the original substances are mixtures), or they also may be products of decomposition. Volatile solid substances give rise to *sublates* (see 5, below). The evolution of volatile products is often the result of changes which are accompanied by darkening in colour due to the charring of organic substances. Deflagrations and some other interactions and decompositions, which are occasionally of a more or less explosive character, give rise to volatile products [see (j) below].

As water is nearly always given off in greater or less quantity when solid substances are heated (see 1 in previous article), it may be most conveniently discussed here—

(a) *Water vapour*, which is often given off at a relatively low temperature, and of which part usually condenses in drops in the cool upper portion of the tube, may be due to hygroscopic moisture, to the decomposition of substances containing water of crystallisation, to the decomposition of oxygen acids, of hydroxides, of acid salts, of basic salts, of some ammonium salts, etc. The water so condensed often contains dissolved substances, and its reaction to test-papers should be observed. *Alkaline* reaction is usually due to the presence of ammonia, derived from ammonium salts, from cyanogen compounds, etc. *Acid* reaction is due to the presence of a volatile acid, such as one of the halogen acids, sulphurous acid, sulphuric acid, nitric acid, acetic acid, etc. After testing the liquid with litmus-paper, it is advisable, before proceeding to heat the dry residue further, to dry the sides of the sublimation-tube as completely as possible by means of filter-paper, otherwise drops may run back into the hot part of the tube and crack it. The evolution of water, when a substance is being tested as here described, should never be disregarded.

Volatile decomposition-products may further include—

(b) *Oxygen*: From certain metallic oxides and peroxides, as  $HgO$ ,  $BaO_2$ , etc.; also from chlorates, bromates, iodates, perchlorates, permanganates, persulphates, anhydrochromates, some nitrates, etc.

(c) *Chlorine*: From platinic, auric, and some other chlorides; also from chlorides generally in presence of oxidising-agents and acid salts or easily decomposable sulphates, etc. (for example,  $NaCl$  in presence of  $MnO_2$  and  $KHSO_4$  or  $FeSO_4 \cdot 7H_2O$ ).

(d) *Bromine*: From some bromates: from bromides in presence of oxidising-agents and certain sulphates, etc.

(e) *Iodine*: From some iodates; from iodides in presence of oxidising-agents and certain sulphates, etc.

(f) *Nitrogen*: From ammonium anhydrochromate; from ammonium nitrite or a mixture of another nitrite with an ammonium salt; also from some ferrocyanides and ferricyanides.

(g) *Nitrous Oxide*: From ammonium nitrate or a mixture of another nitrate with an ammonium salt.

(h) *Nitrogen Peroxide* (mixed with oxygen): From nitrates of heavy metals, as lead nitrate, bismuth nitrate, etc.

(i) *Ammonia*: From some ammonium salts, as sulphate, phosphate, borate, etc.; also from some cyanogen compounds [already referred to under (a) above].

(j) *Carbonic Anhydride*: From oxalates, cyanates, certain carbonates, etc.; from the oxidation of carbonaceous substances generally; is sometimes mixed with carbonic oxide or with nitrogen.

(k) *Carbonic Oxide*: From formates and oxalates; is often mixed with carbonic anhydride, and sometimes with hydrogen and methane.

(l) *Cyanogen*: From cyanides of some heavy metals; also from cyanates and thiocyanates.

(m) *Sulphurous Anhydride*: From acid sulphites and some sulphates and thiosulphates; from the oxidation of sulphides, thioeyanates, etc.; is sometimes mixed with oxygen.

(n) *Hydrogen Sulphide*: From hydrosulphides; also from sulphites and thiosulphates in presence of water.

(o) *Hydrogen Phosphide*: From phosphites and hypophosphites.

(p) *Halogen Acids and other Volatile Acids*: From chlorides, bromides, iodides, fluorides, etc., in presence of

certain acid salts, easily decomposable sulphates, etc. [compare (a) and (e)]. *Silicon Fluoride* or *Boron Fluoride* may be evolved from fluorides when heated along with silica or a silicate (glass), or with a borate (as the case may be), in presence of such acid salts or sulphates.

**5. The volatile product forms a sublimate** in the cool upper part of the tube. The chief substances which form sublates are noted below, together with the nature of the sublate and the effect of heating the substance with dry sodium carbonate in a sublimation-tube.

Substance	Nature of Sublimate	Substance Heated with Dry Sodium Carbonate
Mercuric chloride ...	White (substance melts)	
Mercurous chloride ...	White (substance does not melt)	Metallie sublimate, which gives globules of mercury on rubbing
Mercuric iodide ...	Yellow, red on rubbing	
Mercuric sulphide ...	Black; also some metallic globules	
Arsenious anhydride ...	White; part at least, crystalline	
Arsenious sulphide ...	Reddish-yellow	Black shining sublimate
Ammonium chloride and some other ammonium salts ...	White	{ Smell of ammonia; no sublimate
Sulphur ... ...	Pale yellow: yellowish-brown drops	
Iodine ... ...	Black shining crystals: violet vapour	
Oxalic acid ... ...	White; white fumes	
Benzoinic acid ... ...	White; odour of incense	Vapour of benzene; burns with luminous flame

NOTE.—The residue (if any) from the portion of the original substance which has been heated in the sublimation-tube test may be further employed for the tests (a) to (f) under heading 1 in the article on "Economy of Substance," in the C. & D., August 31, 1907, p. 360.

### Business Changes.

Properly authenticated business notices (not being advertisements) are inserted in this section free of charge if promptly communicated to the Editor.

MR. THOMAS CONLEY, chemist and druggist, Auchtermucht, N.B., has disposed of his business to Mr. Chas. S. S. McDonald, late of Edinburgh.

THE DR. HÖGYES' ASBESTOS STOCK CO. have removed from 39-40 Chiswell Street to more convenient premises at 16 Carthusian Street, Aldersgate Street, E.C.

MESSRS. T. F. BRISTOW & CO., LTD., St. James's Walk, Clerkenwell, E.C., are now represented in the Eastern Counties by Mr. W. Sydney Buck, of Ipswich, instead of Mr. W. L. Hudson, who, owing to increasing business, has had to relinquish the ground.

CHEMICALS AND SACCHARIN, LTD., of Vernier, Geneva, and London, announce that their company has been taken over by the Société Anonyme La Rhodienne, of Vernier, Geneva, but that the management will remain as hitherto. M. Florizooone has been reappointed director.

MR. W. G. WEDDLE, chemist and druggist, has removed from Kingsley Road, Liverpool, to Liscard, Cheshire. Messrs. Ayrton-Graham, Ltd., of Liverpool, undertook the removal of fittings and stock, while the additions and alterations to the former have resulted in producing a handsome double-fronted pharmacy. (Corrected note.)

THE PARTNERSHIP between Walter T. Cooper, pharmaceutical chemist, and T. Wade, chemist and druggist, trading as W. Temple Cooper & Co., chemists, 53-54 Rathbone Place, Oxford Street, London, is dissolved from July 19, owing to the sale of the leases at Rathbone Place in consequence of a rebuilding scheme, and all accounts should be sent in before July 30. Mr. Walter T. Cooper will carry on the wholesale portion of the business at 32 High Street, Wealdstone, while Mr. T. Wade is joining Messrs. Manrieve & Co., of 42 Oxford Street, who are taking over the retail and dispensing business. Messrs. Manrieve & Co. are enlarging their pharmacy to cope with the consequent increase of trade in foreign pharmaceutical products, of which department Mr. Wade will be in charge.

## English and Welsh News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

### Brevities.

The optical examinations of the Spectaclemakers' Company have been held this week at the Northampton Institute. There were between sixty and seventy candidates.

Cardiff Guardians received, on July 10, a letter from the local Infirmary suggesting a joint petition asking for a rebate of the duty on spirits used in medicine. After discussion the matter was allowed to drop.

Mr. C. Dickinson, 119 South End, Croydon, secretary of the new local association, has sent out a circular to all chemists in the district, inviting them to become members. Any others desiring to join should write to him.

At the sale-rooms of Messrs. Hodgson, Chancery Lane, London, W.C., on July 15, were offered a number of books on early chemistry and pharmacy from the Calgarth Park Library; also a herbarium, the plants in which were collected in the Lake district and Liverpool between 1790 and 1830.

The Camberwell Guardians have increased the salary of Miss L. R. Harvey, dispenser at Camberwell, from 120*l.* per annum to 130*l.*, then by 5*l.* every two years to 150*l.* The salary of Miss A. E. Coste, dispenser at Nunhead, is also being raised from 125*l.* per annum to 130*l.*, then in the above manner to 150*l.*

The East Anglian branch of the British Medical Association held its annual meeting at Clacton on July 8, when Dr. W. H. Slimon, J.P., was elected president for the ensuing year. A paper on "Gynaecology" was read by Dr. Macnaughton Jones. Among the exhibitors at the meeting were Messrs. Parke, Davis & Co., the Sanitas Company, and Messrs. Downes Brothers.

At Blaenavon (Mon.), a schoolboy named H. V. Davies appeared before the local Bench on a charge of stealing a box of sulphur tablets from Mr. William Thornton, chemist and druggist, Blaenavon. Mr. Thornton stated that he regretted his action in having the boy arrested since the defendant appeared to have taken his offence to heart. The Magistrates accordingly dismissed the charge.

At the second rose show in connection with the Horticultural Society of Messrs. Ferris & Co.'s employés at Bristol the exhibitors had a fine display. The first prize was secured by Mr. J. Rayson, and the second was awarded to Mr. Arthur Lewis. Points were also obtained by Messrs. Baker, Bennett, Bowden, Watson, and Welch. The members visited the charming grounds of Canon Ellacombe at Bitton on July 10, where they inspected many horticultural novelties.

Leonard Barker (13), employed as an errand-boy by Mr. Wm. T. Jones, Ph.C., High Street, Sutton Coldfield, appeared before the Magistrates at a Children Court at Sutton Coldfield on July 6. The boy was found in a semi-conscious state with a small green bottle containing chloroform in his possession. He admitted obtaining the chloroform from his employer's establishment and inhaling it, after placing it upon a handkerchief, as he "wished to go to sleep." The case was adjourned for a month, during which supervision is to be kept over the youth.

At the Cardiff Sessions on July 7, Samuel Naish, or Ness (23), picture-dealer, was sentenced to four months' imprisonment with hard labour for obtaining money by false pretences by selling an imitation of Zam-Buk ointment (*C. & D.*, June 12, p. 897). Prisoner deposed that he sold the ointment as "Omega" ointment, and, although he told people that it was similar to Zam-Buk ointment, he had no intention of selling it as the latter ointment. In reply to Mr. St. John Francis Williams, who prosecuted, he said that he had no particular reason for colouring the ointment green, and he learnt afterwards that Zam-Buk was green. To questions in reference to a printed bill in which it was stated that the ointment was "used in all the principal hospitals" and "recommended by medical men," the prisoner was unable to give their names, as also the address of the "London dépôt."

### Science in South Kensington.

On July 8 King Edward laid the first stone of the new buildings of the Imperial College of Science and Technology at the corner of Exhibition Road and Prince Consort Road, South Kensington, which are to be devoted chiefly to engineering. Lord Crewe, in an address to the King on behalf of the governors, professors, students, and staff of the College, dealt briefly with the history of the College, which is an amalgamation of the Royal School of Mines, the Royal College of Science, and the Corporation and Livery Companies of the City of London's Central Technical College, the welding being with the object of giving the highest specialised instruction and of providing for the most advanced training and research in the various branches of science, especially in its application to industry. The further development in the new buildings has been rendered possible by the Royal Commissioners for the Exhibition of 1851, who have given the sites, by the liberal grants provided by the Government and the London County Council, and the generosity of private donors, including the late Mr. Alfred Beit, the Goldsmiths' Company, and the Bessemer Memorial Committee. The King, in the course of his reply, said :

The purposes of the College are to give the highest specialised instruction and to provide the fullest equipment for advanced teaching and research in various branches of science, especially in its application to industry. . . . As time goes on I feel more and more convinced that the prosperity, even the very safety and existence, of our country depend on the quality of the scientific and technical training of those who are to guide and control our industries. The rapid growth of knowledge makes it necessary for the teacher of any branch of applied science to be a specialist of a high order, and the most accomplished specialist cannot impart the full advantage of his knowledge without that complete provision of apparatus for research and instruction which this College will supply.

The President of the Board of Education (Mr. Runciman) on July 13 received a deputation of science leaders, which was introduced by Sir William Anson, M.P., on the housing of science collections at South Kensington. Sir Henry Roscoe presented the memorial, which drew attention to the fact that the permanent building now erected provides for art collections only, and to complete the scheme a suitable building for a science collection is a necessity. Sir Henry said the present collection in the old buildings is so inconveniently crowded that proper arrangement and inspection are impossible. Other speakers urged the unsuitability of the present buildings, which prevents the collections being made adequate and representative of the growth and progress of science. Mr. Runciman, in replying said he recognised the necessity of a new building for science collections. After referring to financial difficulties and the difficulty of finding a suitable site, he undertook to transmit the deputation's statements to his colleagues, and to use his personal influence to press upon them the necessities of the case.

### Travel Exhibition.

An exhibition with this title is being held this month at Olympia, Kensington, W. It is mostly taken up with camping and sporting requisites and models of aeroplanes, but there are a few exhibits of special interest to our readers. Messrs. Burroughs Wellcome & Co. have a corner near the bandstand, where they are showing tabloid medicine-chests, photographic chemicals, hazeline cream, and Opa dentifrice. In another section the firm show a series of historical medical equipments. Mr. Frank A. Rogers, Oxford Street, W., has an exhibit of Muscatol and veterinary muscatol, which is stated to give absolute protection against insect bites. Autola is a toilet preparation which Mr. Rogers is also showing. Danysz Virus, Ltd., exhibit their rat virus, and have many stuffed rats and mice to attract attention to the stall. The Berkefeld Filter Co., Ltd., have a general display of filters, especially the portable varieties such as are used by travellers and campers. The Winco semi-rotary wing pump is another of their exhibits. Messrs. Widenmann, Broicher & Co. exhibit equinidine and validol. The last-named is for sea-sickness and obtainable in various forms. It is advertised by means of a finely-produced booklet. Jeyes' Sanitary Compounds Co., Ltd., have a good exhibit in the annexe, where

is situated the camp of boy scouts and amateur campers. Other exhibitors are Messrs. Brand & Co., Ltd. (meat preparations), the Tella Camera Co., Messrs. Cadbury Bros., Ltd. (cocoa essence and Bournville chocolate), Chr. Hansen's Laboratory (junket tablets), Messrs. Alfred Bird and Sons, Ltd. (custard powder), Gillette Safety Razor Ltd., Major & Co., Ltd. (solignum wood stain), and Bovril, Ltd.

#### Re F. H. Taylor & Sons.

Private meetings of the creditors of Mr. P. F. Taylor, trading as F. H. Taylor & Sons, glass-bottle manufacturers, New Wharf Road, London, N., were held at the Guildhall Tavern, London, E.C., on July 8 and 15. A note of the former meeting was printed in our Coloured Supplement last week. The liabilities due to trade creditors are £6,222*l.* and include the following :

Tritschler, Winterhalder & Co., 515*l.* 8*s.* 6*d.*; E. Zahn & M. E. Gofpert, 353*l.* 12*s.* 9*d.*; Koschuch Janos, 284*l.* 11*s.* 3*d.*; J. Truscott & Sons, Ltd., 231*l.* 14*s.* 2*d.*; Herbert's Decorative Glass Works, 223*l.* 12*s.* 7*d.*; Glasshüttenwerke Weißwasser, 195*l.* 7*s.* 2*d.*; P. T. Turner, Ltd., 182*l.* 7*s.* 5*d.*; A. O. Müller, 167*l.* 19*s.* 8*d.*; J. B. Gaasch, 144*l.* 4*s.* 10*d.*; Anglo-Foreign Manufacturing Co., Ltd., 163*l.* 12*s.* 10*d.*; R. Johnston & Co., 128*l.* 5*s.* 6*d.*; F. Machowitz, 121*l.* 8*s.* 7*d.*; Brilliant Sign Co., Ltd., 108*l.* 13*s.*; Weiss & Biehler, 102*l.* 8*s.* 3*d.*; J. Wuidart & Co., 99*l.* 11*s.* 2*d.*; Tittel & Co., 80*l.* 19*s.*; F. Hofmann, 77*l.* 13*s.* 3*d.*; C. Stolzes Sohne, 77*l.* 13*s.* 5*d.*; W. J. Cooper, 77*l.* 3*s.* 9*d.*; A. E. Walker, Ltd., 76*l.* 7*s.*; Beatson & Co., 74*l.* 17*s.* 5*d.*; S. Dornberger & Co., 63*l.* 2*s.* 6*d.*; Bushnell & Son, 62*l.* 7*s.* 6*d.*; Kimble Glass Co., 62*l.* 15*s.* 10*d.*; Glasshüttenwerke Wernerhütte, 59*l.* 10*s.* 7*d.*; Möller Jungwirth & Griebel, 58*l.* 16*s.* 5*d.*; J. T. C., Ltd., 57*l.* 1*s.* 5*d.*; Library Bureau, Ltd., 52*l.* 13*s.* 1*d.*; L. Le Personne & Co., 52*l.* 15*s.* 11*d.*; Kontny & Lange, 50*l.* 11*s.* 8*d.*; creditors under 5*l.* 2,049*l.* 12*s.* 11*d.*

At the adjourned meeting on July 15 the Committee of Inspection reported the result of their investigations. They had also interviewed Mr. Taylor, sen., who increased his offer of composition to 8*s.* 4*d.* in the pound. By a large majority the creditors present agreed to accept that offer, and a circular will be sent to each creditor asking for formal assent, with a view to universal acceptance.

#### The late Mr. Henry Saunders.

The funeral of the late Mr. H. G. Saunders, of Messrs. Ayrton, Saunders & Co., Ltd., Hanover Street, Liverpool, took place at Anfield Cemetery on July 7, when, in addition to his immediate relatives, there were present a large number of the employees of the company from warehouse and factory, including Messrs. J. B. Graham, J. P. Garrow, E. G. Gill, E. W. Bindloss, Harold Nixon, and J. Parkes, besides Messrs. J. C. Jackson (Henry Jackson & Sons), G. M. McLoughlin (Evans Sons Lescher & Webb, Ltd.), and J. P. Wilson (James Boulton & Co., Ltd.).

#### Contracts.

Monmouth Guardians.—Mr. T. Matthews, Monmouth, appointed as chemist.

Stratford-on-Avon Guardians.—Mrs. B. Preston, Stratford, for chemists' sundries.

Canterbury City Council.—Messrs. E. Bing & Son appointed chemists for six months.

Grantham Town Council.—Mr. B. G. Skipworth, chemist and druggist, Grantham, for the supply of drugs.

Middlesbrough Sanatorium.—Mr. W. Cariss, chemist and druggist, Linthorpe Pharmacy, Middlesbrough, for drugs.

Loughborough Town Council.—M. H. H. Taylor, chemist and druggist, Loughborough, for the supply of chemists' sundries.

East Ham Town Council.—The quotation of Messrs. Parke, Davis & Co. for the supply of antitoxin for the period ending March 31, 1910, is to be accepted, subject to the firm's agreement.

Bradford Corporation.—The Technical College and School of Art Sub-committee recommend the acceptance of the tender of Messrs. Harrison, Parkinson, & Co., chemists, Bradford, for the supply of chemicals and apparatus during the ensuing session, at the estimated value of 159*l.* 15*s.* 10*d.*

Bristol Guardians.—Messrs. Ferris & Co., Ltd., Bristol, for the supply of drugs and druggists' sundries during the ensuing year. The items and prices were fully detailed in a printed list extending to the equivalent of four pages of this journal. The prices showed considerable reductions upon the usually quoted wholesale rates, and the list concluded with the following quotations :

Stomachic mixture, consisting of powdered rhubarb, 4 grains; bicarbonate of soda, 10 grains; eomp. tinct. gentian, 20 minims; peppermint water to 1 oz.—at 1*s.* 5*d.* per gal.

Saline cough-mixture (cone. 1 to 7)—liq. am. acet., 2 drams; spt. aeth. nit., 30 minims; acet. ipecac., 5 minims; tinct. camph. co., 30 minims; acet. scill., 10 minims; water to 1 oz.—at 1*s.* 5*d.* per lb.

Stimulating expectorant-mixture (cone. 1 to 7)—ammon. carb., 4 grains; spt. chlorof., 10 minims; syrup. prun. virg., 20 minims; infus. senegae to 1 oz.—at 2*s.* 6*d.* per lb.

Indigestion-mixture (cone. 1 to 7)—pepsin. porci. pur., 2 grains; liq. bismuth., 15 minims; tinct. card. co., 30 minims; spt. chloroform, 10 minims; water to 1 oz.—at 2*s.* 1*d.* per lb.

Aperient-mixture (cone. 1 to 7)—ferri. sulphat., 2 grains; magnes. sulph., 30 grains; acid. sulph. dilut., 10 minims; peppermint water to 1 oz.—at 7*d.* per lb.

Compound petroleum ointment—hydrarg. ammon., 15 grains; liq. carbon deterg., 30 minims; soft paraffin to 1 oz.—at 9*d.* per lb.

Liniment "albuni," at 4*d.* per lb.

Liniment of aconite, bellad., and chlorof., at 1*s.* 8*d.* per lb.

Liniment of potass. iodidi c. sapone, at 1*s.* 6*d.* per lb.

Purgative pill—ext. colocynth co., 2 grains; pil hydrarg., 1 grain; ext. hyoscyami, 2 grains—at 10*d.* per lb.

#### Birmingham Notes.

At the Moseley Gymkhana, held on Saturday last in aid of the Children's Hospital, Mr. T. W. Lowther, chemist, Moseley, acted as steward of the sports.

A novel feature of the new Chemistry Department at the University is an open-air laboratory provided with a glass roof, and intended for work in which excessive fumes are produced.

The chemists' windcw-smasher who did damage to the extent of fifteen guineas at Messrs. Reeves and Messrs. Needham's shops was at the sessions sentenced to two months' hard labour.

The son of Mr. Winfield, chemist, Solihull, has scored another scholastic success, having obtained a valuable scholarship for three years from the Warwickshire County Council. He was top of the list in chemistry.

Pharmacy was represented in high places on the occasion of the King's visit. Alderman Clayton was at the Royal luncheon-table, Mr. and Mrs. F. Barlow were at that of the Art Gallery, and Sir Thomas Barclay was in the University company.

Mr. W. Izon, chemist, High Town, Aston, who is Treasurer of the local Ratepayers' Association, presided at a large gathering of the traders of this Birmingham suburb, when resolutions were passed in favour of association with Birmingham, under the Greater Birmingham scheme.

Dr. A. E. R. Weaver, who has been appointed a medical officer of health of the Artillery district at a salary of 350*l.*, is a son of Mr. T. Weaver, chemist, The Parade, and was educated at King Edward's Grammar School and Birmingham University. Of the latter he is M.D. and D.P.H.

#### Analysts' Reports.

The Durham public analyst reports that he found samples of chlorodyne lozenges to contain 0.14 per cent. of chloroform.

The Walsall analyst reports having examined one sample each of camphorated oil and sweet spirit of nitre. Both were certified as genuine.

The Northamptonshire analyst reports that during last quarter he found that two samples of sweet spirit of nitre were deficient in nitrous ether. This was the only drug reported against.

#### The Original "Lucifer Match."

Messrs. W. Hardcastle & Sons, Finkle Street, Stockton-on-Tees, have on show in their window the mortars and pestles owned by the late Mr. J. Walker, chemist, High Street, Stockton, who is claimed as the inventor of the lucifer match. There is also exhibited the open page of Mr. Walker's day-book, containing the entry of the sale of the first lot of friction-matches, on April 7, 1827. To

complete the exhibition there repose under a glass shade, in solitary dignity, one of the two matches known to be in existence made by Mr. Walker. It is hoped to raise sufficient interest to erect a local monument to the inventor of so great a boon as matches have been. Already Mr. Hardeastle has had offers from America for these precious relics, but has refused the same.

#### The Strychnine-in-Beer Mystery.

The East Kent Coroner concluded on July 6 the adjourned enquiry into the death of James Jordan, platelayer, who died from strychnine poisoning. The poison was contained in a bottle of beer which had been found on the railway (*C. & D.*, July 3, p. 28). The analyst reported that the organs of the deceased's body contained nearly  $\frac{3}{4}$  grain of strychnine. The dregs in the bottle contained beer and crystals of strychnine. Police inquiries at Herne Bay, Whitstable, and Canterbury showed two records of sales of strychnine by Whitstable chemists, but not in the form in which it was present in this instance. The Coroner (Mr. Harvey), in commenting upon the case, said that five grains of strychnine for 3d. "was too cheap." He also commented upon the indiscriminate use of poisons, referring to a recent case at Ashford, where a gamekeeper had put down arsenic mixed with meal.

#### Sheffield Notes.

Mr. J. F. Eardley, Ph.C., had the honour of an unexpected visit from the Bishop of Sheffield on July 8, the latter having had an unfortunate accident close by Mr. Eardley's Fulwood Road premises, owing to his horse backing into a tramcar. He was carried into the pharmacy and received attention, and has since been confined to his room.

Writing of the late Mr. J. M. Furness, whose death is recorded in this issue, a writer in the "Sheffield Daily Telegraph" says he "was an instance of a man who did not reach the position to which his great abilities seemed to entitle him. At one time he looked like becoming an important leader of thought and action in civic affairs. But he found party discipline and control irksome, and lacked something of the tact which knows when to give way. . . . During the eleven years he was in the Council he did a great deal of very useful work."

#### Cricket.

Baiss Bros. & Stevenson C.C. v. Wright, Layman & Umney C.C.—This match was played at Bailey's Lane, Stamford Hill, on July 10, and resulted in a win for the former team by 36 runs. Scores : B. B. & S., 82; W., L. & U., 46.

## Irish News.

**Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.**

#### British Medical Association.

The annual meeting is to be held in Belfast from July 23 to July 30, under the presidency of Sir William Whitla, professor of materia medica and therapeutics. Sir William is to be the next President of the Association. The meetings are to be held in the Queen's College.

#### Druggists-Grocers.

The Belfast and North of Ireland Grocers' Association, which has just been registered as a limited company, has for one of its objects the protection and promotion of the interests of the drug-trade. The members include a number of Belfast druggists who combine the sale of drugs and grocery.

#### Guardians and Spirit-duty.

The Local Government Board for Ireland has issued a circular to Boards of Guardians stating that by resolution of the House of Commons of April 29 the revenue-duty on proof spirit was increased from 11s. to 14s. 9d. per gal., and as contractors for medicines had become liable to the increased duties upon all preparations of the British Pharmacopœia in the preparation of which spirits are used, they are entitled to charge to the Unions the increased duty in proper proportion in addition to the contract price.

#### Right-of-Way Case.

Messrs. Bewley & Draper, Ltd., who are chemists and druggists, Mary Street, Dublin, have appeared in the High Court as defendants in a disputed right of way to a lane adjoining their premises. The plaintiff, a small trader, claimed the right of free passage, and sought to restrain the defendants from closing up the place. The defence was a plea of right. The Court found for the plaintiff, and directed Messrs. Bewley & Draper to pay the costs of the action, together with 10*l.* damages to plaintiff.

## Scots News.

**Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.**

#### Aberdeen and the North.

The Aberdeen School of Pharmacy has done well in the July Minor examination, having a pass of 75 per cent.

Mr. Robert Leslie, who recently purchased the business at 66 Sunny Bank Road, Aberdeen, has now received the appointment of sub postmaster.

Mr. W. S. Taylor, chemist and druggist, Inverurie, had four pipes stolen from his shop last week, and the man who took them has had the option of paying 1*s.* or going to prison for a week.

The holiday season is now on, notwithstanding the fact that holiday weather has not arrived. Many Aberdeen chemists are in the country resting after the strain of a prolonged winter season, during which the dispensing department has been kept busy.

#### The West.

Mr. Henry Hannah, Paisley, has disposed of his branch business at Crosshill Terrace to Mr. W. D. Gellatly, who has been manager for the past few years.

In Greenock Sheriff Court last week, Sheriff Neish gave judgment in favour of John West Loudfoot, traveller, who sued the Scottish Chemical Co., Ltd., Greenock, for arrears of salary and expenses. The defenders had desired pursuer to detail his expenses and produce vouchers, but his Lordship thought they were too late in asking that, and he was satisfied that the expenses charged were reasonable.

#### Edinburgh.

This summer promises to be one of the quietest on record. In every quarter grumblings are heard regarding dwindling sales.

On Friday evening, July 9, an attempted raid by University students on the premises of Dr. Macanra—an American whose vibrating machines appear to be selling well—was frustrated by the police.

A woman obtained a bottle of magnesia from a local pharmacist the other day, stating that she would send the money over in a few minutes, and giving an address near, where, on inquiry being made, she was unknown. She may visit others in town with a similar story.

David G. Leishman (15), an apprentice in the employment of Mr. Dall, chemist, 27 Bruntsfield Place, when crossing Bruntsfield Place on May 20 last, was knocked down and run over by a taxi cab belonging to the Provincial Motor Cab Co., Ltd. He is suing the company in the Court of Session for 750*l.* damages, and the company, without prejudice, have made a tender of 41*l.*, with expenses.

**ROAD TO CINCHONA-PLANTATIONS IN THE PREANGER.** According to a recent number of the "Java Bole," the directors of the private cinchona undertakings in the Preanger district of Java have approached the Government for leave to use for carriage transport of their goods the road to the Government cinchona plantations running from Pengalengan through Tirtasari and Tjinjiroean to Tyiburenni, and I have been told that permission to use this road lies in the direction of the Director of the Government cinchona plantations. It appears that when the construction of this road was under consideration, the directors of the private cinchona-plantations were consulted, and stated that it was quite unnecessary. Later on, after the construction of the road by the Government at its own expense, it was found that it was being used for all kinds of private carriage transport, and use of it by private persons for the carriage of goods was prohibited, hence the present unsuccessful appeal.

## French News.

(From the "C. & D." Paris Correspondent.)

**THERAPEUTICS UP TO DATE.**—A series of ten lectures on radiotherapy and the medical application of radium are being delivered at the Museum of Natural History of Paris by M. Perrier and Dr. Grancher.

**THE RESULTS OF THE ANNUAL COMPETITION** between the "internes," or house-pharmacists, of the Parisian hospitals have just been published. M. Detoeuf, of the Maternité Hospital, is gold medallist; M. Merignon (Cochin Hospital), silver medallist. M. Vouillard (Beaujon) takes a book prize. The gold medallist obtains a travelling scholarship and is allowed to pass an extra (fifth) year in the hospital pharmacies.

**JUNGFLEISCH TO BE HONOURED.**—A strong committee, with Dr. Caventou, member of the Academy of Medicine, as chairman, has been formed to raise a subscription for the presentation of an object of art to Professor Jungfleisch as a token of "admiration for his brilliant career and gratitude for the lustre which he has shed on the profession" of pharmacy. Subscriptions are received by M. Guinocket, head-pharmacist at the Charité Hospital, Paris.

**INSURANCE AGAINST ILLNESS.**—Some members of the Bouches-du-Rhône (Marseilles) Pharmacists' Association have decided to form a mutual benefit society against temporary incapacity through illness. For an annual premium of 12f. the pharmacist who falls ill is allowed 5f. per day for the first month. The local Association has given a contribution which will help the Society to tide over any heavy calls during the first short period of its existence.

**PHARMACEUTICAL CONGRESS AT NANCY.**—This meeting is to be held simultaneously with the British Pharmaceutical Conference in Newcastle-on-Tyne, and will combine pleasure with the business of the General Association. The Nancy district of France is little known to the average Englishman, and I fancy any British pharmacist who joined his French *confrères* at Nancy and round the Vosges would perhaps come back tired, but also thoroughly delighted, with this handsome city, the shady forests of fragrant pines of the Vosges, and the green valleys of fair Lorraine. Pharmacists who think of attending the Congress are asked to communicate with M. Garnier, 26 rue du Faubourg Stanislas, as to rooms at once.

**ROMANCE AND TRAGEDY.**—Henri Escoffé, a young fellow of twenty, employed in a pharmacy at Les Lilas, and Mlle. Berthe Wirex, a Parisian dressmaker of eighteen summers, had formed an innocent and mutual attachment and wove for themselves rosy projects of a united future. But Escoffé was about to be called on to join the army, and was full of gloomy apprehensions as to the constancy of his *pancée* during this two years' enforced absence. They were enjoying each other's company at the fair at Bois-Colombes, near Paris, a few days ago, when Escoffé suddenly drew a revolver and fired point blank at his companion. She fled into a neighbouring wine-shop, where she fainted. Escoffé rushed into the kitchen behind, seized a butcher's knife, and plunging it into his breast fell dead on the spot. Mlle. Wirex, it is hoped, is not dangerously wounded.

**THE NEW TAXES.**—The members of the committee appointed by the French Parliament to examine the new Budget proposals are in majority unfavourable to the adoption without serious modifications. The halfpenny receipt stamp for sums under 8s., and the "inspection" fee proposed to be charged to pharmacists and other retailers to cover the cost of the application of the new Adulteration Act, may be considered as certain to be rejected. M. Lasies (one of the most eloquent leaders of the Opposition in the Chamber of Deputies) proposes to get the tax on alcohol fixed at 120f. per litre of pure alcohol for spirits produced from wines or fruits, and 150f. for industrial alcohol. The Senate has re-elected its 1910 Budget Committee, weeding out a dozen of the former members. Among the new members are M. Peyrat, the Marseilles ex-pharmacist (a former Minister of Finance), and M. Poirrier, the St. Denis chemical manufacturer.

## Australasian News.

The fullest information regarding the Australasian drug-trade and pharmacy is given in "The Chemist and Druggist of Australasia," copies of which can be obtained at 6d. each, post free, from the office of "The Chemist and Druggist," 42 Cannon Street, London, E.C.

### New South Wales.

**PURE FOOD ACT.**—An instalment of the regulations was expected last month, to become operative on July 1. Sixteen meetings of the Advisory Committee had been held up to May 24.

**WAGES BOARD.**—The Pharmaceutical Wages Board applied to the Arbitration Court on May 19 for the appointment of a chairman, the names of two judges being recommended to the Court. The appointment was deferred by the Court.

**TESTIMONIAL TO MR. FORSTER.**—At a smoking-concert on May 27 at the Protestant Hall, Sydney, a small souvenir was presented to Mr. Forster and a purse of sovereigns or cheque, amounting to something like 120*l.* (See C. & D., May 8, p. 701.)

### New Zealand.

**DR. MASON,** the Chief Health Officer, has been given a position under the Internal Affairs Department, and is to leave for England to represent the Government in important matters of emigration and the meat trade. He is also to furnish "a full report upon the supply of surgical instruments and drugs to the institutions under the Government's control, as it is desirable that these shall be obtained by someone who knows what is suitable for the requirements of the country." The Public Health Department has now been made a subordinate department under the control of an officer who has charge of several other departments.

**"M.P.S., GREAT BRITAIN."**—The Registrar of the Pharmaceutical Society of Great Britain wrote to the Pharmacy Board stating that he had been informed that a certain person carrying on business in New Zealand exhibits publicly a statement that he is "M.P.S." and a "chemist by examination in Great Britain," both these statements appearing to be inaccurate, as there is no name on the Register of Great Britain corresponding to that of the person referred to. The Registrar of the Pharmacy Board is to write to the person complained of.

### South Australia.

**THE FOOD AND DRUGS ACT** comes into operation on June 1. It may be that the Act will not be set in motion until the remaining members of the Advisory Board have been appointed and the Board has made regulations, and these have been approved. It is unfortunate for South Australia that the Board is to consist of only seven members instead of twelve, as in the other States, where similar Acts have already come into operation. Four members are already specified in the Act, leaving the whole mercantile, manufacturing, and drug interests to fill the remaining seats, of which one should undoubtedly be filled by a person who knows the requirements of the drug-trade. There is great activity among representatives of the various industries to get their nominees on the Board.

### Victoria.

**DR. NORRIS** is leaving the Victorian Central Board of Health to become Commonwealth Quarantine Director. He will be the adviser of the Commonwealth on all health-matters.

**PYNERZONE.**—This compound, used for killing flies on fish and meat, was analysed by the Government analyst, and found to consist of the woody fibre of cedar, sulphur, and a soluble arsenic compound. Each tin contained the equivalent of 36 grains of arsenic. A hairdresser named Puhl was, at the Malvern Police Court, on May 10, fined 1*s.*, and 2*l.* 1*s.* 6*d.* costs, for selling the preparation, and George Dean, of Equitable Place, Melbourne, was, at the District Court, on April 19, fined 20*s.*, and 3*l.* 3*s.* costs, for a similar offence.

**EDDISON'S FLY-EXTERMINATOR.**—At the Collingwood Police Court on May 4, Mr. J. Eddison, North Richmond,

was fined 4*l.* 10*s.*, and 4*l.* 4*s.* costs, under the Poisons Act, for selling a preparation of arsenic known as Eddison's fly-exterminator. The exterminator was sold for the destruction of flies by butchers and fishmongers, and in a circular issued was an intimation that "where weevils are destroying currants and other dried fruits, it soon rids the place of them in a marvellous way." Each tin of the preparation contained about 500 grains of arsenic, but there was no intimation on the label of the danger of using it.

## South African News.

(From the "C. & D." Correspondents.)

**Note.**—"The Chemist and Druggist" is regularly supplied by order to all the members of all the Pharmaceutical Societies in British South Africa, viz.:

South African Pharmaceutical Association.  
Pharmaceutical Society of Cape Colony.  
Natal Pharmaceutical Society.  
Transvaal Pharmaceutical Society.  
Rhodesia Pharmaceutical Society.  
Northern District Chemists' Association.  
Pharmaceutical Society of Orange River Colony.

### Cape Colony.

**ABERDEEN UNIVERSITY CLUB.**—A meeting of Aberdeen University graduates was recently held in Cape Town, when it was decided to form a South African club. There are 152 graduates of the University in South Africa, and the club will promote closer fellowship among them and otherwise further their interests. The first President is the Hon. Sir William Bisset Berry, M.A., M.D., late Speaker of the Cape House of Assembly. Sir William is a brother of Mr. A. W. Berry, chemist, 1 Rosemount Viaduct, Aberdeen.

### Transvaal.

**BUSINESS CHANGE.**—Mr. Frank T. S. Jennings has taken over the chemist's business of Mr. W. Inglis at Lydenburg. Mr. Jennings was the Brakpan manager of Messrs. B. Owen Jones, Ltd., and has also gained experience with Messrs. John Barker, Ltd., London, J. A. Willet & Co., Port Elizabeth, and Lennon, Ltd., Bloemfontein.

**ADMISSION OF DENTISTS.**—On Clause 2 of the Medical and Pharmacy Bill dealing with the admission of medical practitioners with foreign diplomas, Colonel Woolls-Sampson (Parktown) suggested that this should also apply to dentists, as he thought the absence of that word imposed an unnecessary hardship on those who practised dentistry in this country. He thought the clause as it stood conferred an unnecessary hardship on a very deserving class. Two of his constituents had practised dentistry, one for seventeen and one for twenty years; both had sons studying in America. The amendment was accepted by the Colonial Secretary, who stated that he had intended moving such an amendment himself. After further discussion the Bill was reported to the House with amendments.

**THE OPIUM BILL.**—When this Bill reached the Committee stage in the Legislative Assembly on June 15 the Colonial Secretary moved the insertion of the following new Clause 2:

Opium or extract of opium be sold by a registered chemist and druggist when prescribed by a registered medical practitioner as an incidental ingredient in any medicine or when it occurs as an incidental ingredient in any recognised pharmaceutical preparation.

This, he said, is one of the amendments which were proposed by the Medical Council, and it was agreed to without alteration by the Assembly.—Dr. McNellie moved the deletion of Sub-section 4 of Clause 5 for the reason that chlorodyne, which contains morphia, one of the alkaloids of opium, is allowed to be sold not only by chemists but by general dealers.—The Colonial Secretary pointed out that the Bill was a Bill to amend the Opium Trade Act only, and if a new provision was to be made dealing with chlorodyne and such other poisons as it was necessary to deal with, it should be brought up when the Medical and Pharmacy Bill came on.—Mr. B. O. Jones, the pharmaceutical member for Boksburg, said he was in sympathy with Dr. McNellie, holding that it is very necessary to

deal at an early date with the sale of chlorodyne in the colony. (Hear, hear.) At the same time he hoped it would be dealt with in the Medical and Pharmacy Bill and not in that Bill before the House. The Colonial Secretary urged that the proper place to bring forward the matter was in the Medical and Pharmacy Bill, and on the understanding that it would then be discussed Dr. McNellie withdrew his amendment.

**SALE OF CHLORODYNE.**—When the Committee Stage of the Medical and Pharmacy Amendment Bill was reached on June 15, Mr. B. O. Jones, chemist (Boksburg), said he thought it was very necessary some amendments should be introduced in regard to the sale of poisons. The point was simply to restrict at the present time the use of chlorodyne, and he suggested that it should be deleted from the regulations which exist in the Ordinance, and that permission should not be given to anyone to sell chlorodyne except under medical instruction. He was not at all fighting from a trade point of view; but chlorodyne should be sold only when prescribed by medical practitioners or qualified chemists. The Colonial Secretary deferred to the opinion of Mr. Jones, who had the technical knowledge necessary, and whose statement on a question of this kind he accepted unreservedly, and if chlorodyne was of a violent character, and if it could be removed from the list, he would do so immediately. As the result of further discussion the Colonial Secretary said he would receive a deputation on the subject, as there was the question to be considered of the general sale of chlorodyne in the country stores at distances from towns and medical practitioners and chemists.

### Pharmaceutical Society of Cape Colony.

A GENERAL MEETING was held at the Y.M.C.A., Cape Town, on Thursday, June 17, Mr. W. Froemling presiding. Among those present were Messrs. F. C. Mathew (Vice-President), J. Sowden, H. R. Peck, A. E. A. Tothill, G. R. Cleghorn, W. Turnbull, J. Clayton Smith, W. A. Sleggs, W. E. Crow, W. Aitken, C. Merry, C. Weller, J. S. C. Harens, T. W. Tullett (Allen & Hanbury), J. Francis, and J. Dell (Secretary).

**THE LATE MR. MALLEY.**—The President referred to the recent death of Mr. Malley, and gave a short account of his South African career. He mentioned that of the bequest of 5,000*£* for scientific purposes to the South African College about 750*£*. would have to go in estate duty, and the balance would have to be invested until such time as the amount should be sufficient to carry out the testator's wishes.

**COMPETITION WITH CHEMISTS.**—The report of the committee appointed to deal with the question of general dealers' and doctors' competition in country districts was then read. With regard to doctors dispensing, the committee deemed it inadvisable to take any action, in view of the fact that chemists would be required to cease prescribing, and that in many country places where there are no chemists the medical men have to dispense. The committee were also of opinion that the Colonial Government would not do anything in view of union, when an Act would have to be passed for the whole of South Africa. Regarding general dealers selling medicines within three miles of a chemist, which had been proposed by Mr. Quenét, the committee reported that they had seen the Attorney General, who had stated that no legislation could be introduced at present to deal with the matter. Mr. F. C. Mathew proposed, and Mr. G. E. Cleghorn seconded, that the committee's report be adopted, and they be thanked for their work. This was carried unanimously.

**POISONERS PROPRIETARIES.**—The President then pointed out certain discrepancies in notices sent out by the authorities re sales of proprietaries containing poisons, two of which were contradictory in their effects.

**PHARMACY BOARD.**—Mr. Sowden inquired whether any action was being considered with regard to the next election of the Pharmacy Board. Some discussion followed, and, on the proposal of Mr. Sowden, seconded by Mr. J. Clayton Smith, it was decided to bring the subject up for discussion at the next Council meeting.

**STAMP ACT DEPUTATION.**—The President gave a short account of the recent deputation to the Premier re the Stamp Act, and expressed his satisfaction at the reception accorded them. He followed with a few exceptionally interesting notes on Klip-sweet, a medicine which is much in demand by the natives of South Africa. Although known many years, the composition is still somewhat of a mystery, but it consists chiefly of the *débris* of the hives of wild bees, and contains a considerable amount of honey. Mr. Froemling has not yet completely investigated the substance, but promises more details in the near future.

## Legal Reports.

### Trade Law.

**An Ainslie-Walker Certificate.**—At Glasgow, Sheriff Davidson has made perpetual an interdict granted on May 19 in an action by Mr. J. T. Ainslie-Walker, F.C.S., 64 Cannon Street, London, against the Imperial Colour Co., Rutherglen, Glasgow, restraining the defenders from representing that pursuer had granted a certificate testifying that the Dixie disinfectant offered by defenders was 11.5 times stronger than carbolic acid as tested by the Rideal-Walker method. Defenders pleaded that the action was incompetent, and that pursuer having without their knowledge or authority granted free of charge a certificate, they, having obtained it, were entitled to use it in the manner complained of; but this plea the Sheriff repelled.

**Taking Orders for Wine.**—A case heard and disposed of at Bow Street Police Court, London, on July 10, illustrates the illegality of taking orders for foreign wine to be executed abroad, when the agent has no wine-licence. The defendant was Frederick W. Schaeffer, who resided at Bayley Street, Tottenham Court Road, and during the past three weeks he had sent out circulars on behalf of a wine-firm in Germany. An inspector of Customs and Excise saw defendant at his lodgings and gave him 18s. for a dozen bottles of Oppenheimer, which he understood were to be sent from Germany. The defendant informed the Magistrate that he was interested in the business only to the extent of 100*l.* he had put into it, and did not expect to be paid commission on orders which he might obtain. A penalty of 20*l.* was imposed.

### High Court Cases.

#### "KELVINSIDE" AS A TRADE-DESCRIPTION.

In the First Division of the Court of Session, Edinburgh, Lords Kinneir, Pearson, and Skerrington, on July 8, gave judgment in an appeal from the Glasgow Sheriff in an action by Ernest H. Williamson, chemical-manufacturer, carrying on business as the Kelvindale Chemical Co., at Lochburn, Maryhill, Glasgow, to interdict James Meikle, chemical-manufacturer, Dawsholm, Maryhill, carrying on business there as the Kelvinside Chemical Co., from using the name Kelvinside Chemical Co. The Sheriffs at Glasgow had granted the interdict on the ground that the use by defender of the name Kelvinside Chemical Co., or any other name which was a colourable imitation of the name Kelvin-dale Chemical Co., was calculated to mislead the public into confusing the defender's business and goods with those of the pursuer. The defender appealed, and the Court now recalled the judgments of the Sheriffs and dismissed the action, with expenses in both courts. Lord Kinneir, in giving judgment, said as to the law of the question there was no difficulty or doubt whatever. It lay upon the pursuer to prove that the defender had adopted for a business of the same kind as his, and carried on in the same district of Glasgow, a name so like the name of the pursuer as in fact to enable the defender to appropriate a part of his business by misleading people to suppose that they were dealing with the pursuer when in fact they were dealing with the defender. That was the question to be answered, and his Lordship was of opinion that there was not sufficient evidence to justify an affirmative answer to the question. The other Judges concurred.

#### A PILL INJUNCTION.

BEFORE Mr. Justice Eve, in the Chancery Division, on July 9, the case of Frederick Turner Gibson (since deceased, suing by executors) v. Frederick James Clent was mentioned by Mr. Israel Davis, who on behalf of the plaintiffs moved for an order that a writ of attachment should issue against the defendant for alleged contempt of Court. Plaintiffs alleged that the defendant had broken an undertaking given in the action by which he agreed to give up the use of any labels resembling plaintiffs' labels and to hand over certain labels for destruction. The defendant, counsel said, also undertook not to use the words "Gooch Street Pill Works, Birmingham," or any words of a similar description, and also not to sell Lilly Headache Powders, or to use any labels or wrappers containing those words in imitation of plaintiffs' labels. The plaintiffs had been established many years as wholesale and retail manufacturing chemists at Gooch Street, Birmingham. The defendant was sued for selling boxes of pills made up in imitation of

plaintiffs. He had not entered an appearance to this motion.

His Lordship said that he had received a letter from the defendant saying that he is at present training with the Territorials and that he will not be finished until the middle of August. He asked that the case might stand over until then.

Counsel said that the defendant had told them that he had no funds and did not intend to appear. They had been trying to serve him with the notice of motion since September 1907, and had only succeeded in June 1909, after a private detective had been engaged. It was stated in an affidavit that the defendant traded at 23 and 24 Cheapside, Birmingham. Counsel put in boxes of pills labelled "92 Gooch Street," or "late of Gooch Street." Some had the name Clent, and others the name Holloway, so that, counsel observed, defendant was a compound infringer. He sometimes imitated Holloway's and sometimes plaintiffs'. Counsel alleged that defendant also tried to suggest that he was Gibson, but had not used the name. Counsel submitted that the use of the words "Gooch Street" was a clear breach of the undertaking as well as the use of the word Clent without initials.

His Lordship said his difficulty was that the evidence was all dated two years ago. He thought he ought to have some later evidence.

Counsel said that was because of the defendant's own default. Plaintiffs had been unable to serve him, and the affidavit of the plaintiffs' business manager, Mr. J. Carlyle, showed the difficulty they had had.

His Lordship inquired if there was any later evidence that the defendant was still infringing, because he seemed to have joined the Territorials. Counsel said that their information was that he was still infringing plaintiffs' labels.

His Lordship said that there was a clear breach in 1907. Plaintiffs could have the order they asked for, with costs against the defendant.

An order for a writ of attachment was granted accordingly.

### Dentists Act.

#### LONDON HYGIENIC INSTITUTE CASE.

At the South-Western Police Court, London, on July 8, Mr. Garrett resumed the hearing of summonses, taken out by the British Dental Association, against Oscar Farkasch, Joseph L. Rosenschein, John Donald, and James Newman, of the London Hygienic Institute, Oxford Street, W., and elsewhere, for alleged infringement of Section 3 of the Act, under the circumstances already reported in the *C. & D.*, June 19, p. 940, and June 26, p. 970. When the hearing was adjourned on June 22 Mr. Farkasch had given evidence for the defence, and the Magistrate had dismissed the summons against a fifth defendant, Daniel Rosenschein. On July 8 Mr. S. B. Wakefield, registered dental surgeon, was called for the defence. He is in the service of the London Hygiene Institute, and stated that his name had not to his knowledge been removed from the register of dental surgeons.

Mr. Turner (for the British Dental Association) : You are not on the register, and I can prove it.—In reply to another question the witness admitted having been convicted for illegal pawning, but he repeated that the General Medical Council had not removed his name from the register. [The name Stanley Bennett Wakefield is in the printed register for 1909, but the General Medical Council on May 28 ordered it to be removed. See *C. & D.*, June 5, p. 864.]

The defendant John Donald having given evidence, was followed by James Newman, who denied having stated that he had walked the hospitals. Before he became an operator in dentistry he was a commercial traveller in stationery. He first drew teeth twelve months ago. He believed he made a good job in extracting teeth.

Mr. Ritch, for the defence, then addressed the Court. He said the Dental Association, a self-constituted body, appeared to aim at persecuting the defendants' business to its death. The law permitted these people to practise dentistry and to praise their work in unmeasured terms. They would not come within the section unless they represented they were on the register.

Mr. Garrett said the law allows any man, however unskilful he may be, and however brutal his methods, to extract teeth. The reason is obvious. In country places it

is not always possible to secure the services of a dentist, and therefore the law does not interfere. If a man is allowed to extract teeth he is surely entitled to say he extracts them well. Having pulled his business in using language of this sort, it could not be said that he represented he had a special qualification. In his opinion Newman brought himself within the Act owing to a representation he made, and he fined him 5*l.*, with 5*l.* 5*s.* costs. The summonses against the three other defendants he dismissed.

## Gazette.

### Partnerships Dissolved.

- BARNES, J. B., and BARNES, I. P., chemists, etc., Knightsbridge, London, S.W., under the style of J. B. Barnes & Son.
- BROOKFIELD, J. S., and KINGSFORD, E. C., general medical practitioners, Brondesbury, Middlesex, under the style of Brookfield & Kingsford.
- CLARKE, J. F. H., and BARLET, J. M., physicians, etc., Shaftesbury Avenue, London, W., under the style of Clarke & Barlet.
- DOUGLAS, W. T. P., KERBY, R. J., THOMSON, D. L., and GRAHAM, S. D., medical practitioners, Newbury, under the style of Douglas, Kerby, Thomson & Graham, so far as regards D. L. Thomson.
- GIBBS, T. H., and GASKELL, L. S., physicians, etc., Stechford, Worcester, and Castle Bromwich, Warwickshire, under the style of Gibbs & Gaskell.
- KINNEIR, F. W. E., SNOW, L. M., and FRY, A. C., general medical practitioners, Horsham, Sussex, under the style of Kinneir, Snow & Fry.
- WORROW, H. G., and WORROW, J., veterinary surgeons, High Street, Shadwell, London, E., under the style of H. & J. Worrow.

### The Bankruptcy Acts, 1883 and 1890.

#### RECEIVING ORDER.

- FERGUSON, JOHN CAMPBELL, Malvern, Worcestershire, doctor of medicine.

## Bankruptcy Reports.

*Re* FRANK PEACE, Commercial Traveller, of 18 Cotterill Road, Surbiton.—The public examination of this debtor took place at Kingston-on-Thames on July 13 on a statement of affairs showing gross liabilities 294*l.* 18*s.* 3*d.*, of which 229*l.* 2*s.* 4*d.* was expected to rank for dividend, and assets *nil*. Debtor stated that he had been a traveller for several firms as a druggists' sundriesman, but is now out of employment. His wages had varied from 8*l.* a week to 3*l.* He attributed his failure to extravagance and betting. The examination was closed.

*Re* GEORGE CULLWICK, 171 Fulham Road, Chemist, lately trading as the Imperial Drug-stores.—The first meeting of creditors was held on July 14. The debtor stated that he purchased the lease and fixtures of 171 Fulham Road in February 1906 for 25*l.*, and traded there as a chemist under the style of the Imperial Drug-stores. In November 1907 it was turned into a limited company, with a capital of 600*l.*, afterwards increased to 1,000*l.* He acted as managing director at 150*l.* a year. In March last a receiver was put in on behalf of a debenture-holder, and the company had since gone into liquidation. He attributed his position to the non-success of the company. He returned his liabilities at 189*l.* and assets *nil*. The following are the principal creditors: C. Breidenbach, Greek Street, Soho (10*l.*); Daniel Coley & Co., Ltd., Eastcheap (10*l.* 9*s.* 6*d.*); Mrs. K. Gay, Disraeli Road, Putney (136*l.*); H. Diprose, 66 Clapham Road (16*l.* 10*s.*). In the absence of any offer the case was left in the hands of the Official Receiver to be wound up in bankruptcy.

*Re* WILLIAM FOWLD'S, Ingrow Bridge, Keighley, Yerks, Chemist and Druggist.—A summary of this debtor's statement of affairs shows gross liabilities 2,205*l.* 10*s.*, of which 1,094*l.* 17*s.* 6*d.* is expected to rank for dividend, made up of 827*l.* 12*s.* 5*d.* due to unsecured creditors, and 267*l.* 5*s.* 1*d.* to creditors partly secured, and assets estimated to produce 405*l.* 15*s.* 5*d.*—viz., cash in hand, 6*l.* 15*s.*; cash deposited with solicitor for costs of petition, 4*l.*; stock-in-trade (cost 220*l.*), 200*l.*; trade fixtures, etc., 70*l.*; shares in trade companies, 10*l.*; one-third share in land, Glen Lee, Keighley, 100*l.*; ten good book-debts, 5*l.* 0*s.* 5*d.*; surplus from securities in the hands of creditors fully secured, 10*l.* After deducting preferential creditors 3*l.* 2*s.* 6*d.*, the deficiency is 692*l.* 4*s.* 7*d.* The bankrupt alleges the causes of his failure to be depreciation in the value of shares in limited companies and losses in connec-

tion with the firm of Fowlds Brothers, a druggist's business, which he conducted in partnership with his brother John, who died last year insolvent, leaving a debtor responsible for the liabilities. The debtor is forty-five years of age, and has been in business at Keighley as a chemist and druggist since 1892. He had also for a short time shops at Skipton and Haworth, which he disposed of at a profit. In 1895 he started a wholesale business, and in 1898 Mr. A. S. Dean joined him as partner, but a year later the partnership was dissolved, Mr. Dean taking over the retail business and debtor the wholesale, which he conducted from 15 Wellington Street, Keighley. In 1902 he sold his business to Messrs. J. Bottomley & Sons, Ltd., for 250*l.* in cash and 70*l.* in shares in that company. He was appointed manager of the business at a salary of 2*l.* per week, with an allowance for travelling expenses, and commission. This position he still retains. About four years ago he built the house and shop at Ingrow Bridge where he resides, and, under his wife's management, carried on a retail business as chemist and druggist. The turnover averaged about 9*l.* a week. The house and shop cost him 850*l.*, and are now mortgaged for 913*l.* Debtor filed his petition on his employers issuing a writ against him for the recovery of a partly secured claim for loan and interest amounting to 250*l.* 15*s.* 8*d.* His books of account consist of day-book, ledger, and a memorandum book recording some of his purchases and sales. He makes no offer to his creditors, all of whom over 10*l.* are for money lent.

## New Companies and Company News.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

BRITISH SURE SEAL CO., LTD. (P.C.)—Capital 10,000*l.*, in 1*l.* shares. Objects: To adopt an agreement with Pierre José Boucher and to manufacture stoppers or caps made in accordance with his inventions.

WILLIAM WALLS & CO., LTD. (P.C.)—Capital 26,000*l.*, in 1*l.* shares. Objects: To acquire the business of spermaceti and paraffin-wax refiners and oil merchants carried on by William Walls & Co., at Maryhill, Lanarkshire. The first directors are W. A. Walls and J. P. Craigie.

MORTGAGES AND CHARGES.—The following have been filed at Somerset House: *William Coleman's Ordinary Shares, Ltd.* Particulars of 180,000*l.* first and 50,000*l.* second mortgage debentures, now issued. Trustees: J. W. Sewell, W. O. Snelling, and G. T. Feasey.—*Harvard's Institute, Ltd.* Debenture to secure 500*l.* Holders: P. H. Bayer, Welbeck Hotel, Wigmore Street, W., and Mrs. M. L. Atherley, 7 Norfolk Street, Park Lane, W.—*Marshall & Co., Ltd.* 1,000*l.* debentures, now issued.—*Taylor's Drug Co., Ltd.* Mortgage on land and premises in Durham, Morecambe, Pudsey, Hull, Leeds, and Northallerton, to secure all moneys due or to become due from the company to the North-Eastern Banking Co., Ltd., Newcastle-on-Tyne, not exceeding 5,000*l.*—*Hunstanton Mineral-water Co., Ltd.* 500*l.* debentures now created and 200*l.* issued.—*W. A. Wayland & Co., Ltd.* Issue of 50*l.* debentures. W. Pickard & Co., Ltd., have filed a memorandum of satisfaction to the extent of 2,000*l.* (balance owing) on 5,000*l.* debentures.

COMPANY RECEIVERS APPOINTED.—*Cologne Perfumery Co., Ltd.* F. M. Gillott, C.A., of 2 Gresham Buildings, E.C.—*W. H. Edwards & Co. (London), Ltd.* H. W. Quittenden, 10 Walbrook, E.C.

## Pharmaceutical Society of Ireland.

### COUNCIL-MEETING.

THE Council met in the Society's House, 67 Lower Mount Street, Dublin, on Wednesday, July 7, at 3 p.m., Mr. John Smith (President) in the chair. There were also present: Messrs. J. H. Bowden (Treasurer), George D. Beggs, W. J. Hardy, James Michie, T. N. Mollett, J. A. Walsh, L.R.C.P. & S.E., D. M. Watson, and W. F. Wells.

### NEW MEMBER OF COUNCIL.

The PRESIDENT said the first business was the co-option of a member of Council in the place of Mr. W. V. Johnston, who had resigned. Dr. C. J. B. Dunlop, Ph.C., Lower Camden Street, Dublin, was declared duly co-opted.

## THE CASTLE SUSTAINS.

A letter from the Assistant Under-Secretary, Dublin Castle, stated that the Lord Justices having considered the memorial of Messrs. Moore Wilkinson, James Guthrie, and James Macauley, asking for a remission of fines imposed on them for illegal trading, had decided that the law should take its course.

The PRESIDENT: It is very satisfactory to find that in this case the law is to be allowed to take its course.

Reports from the several committees and other routine business were disposed of.

## NEW MEMBERS AND ASSOCIATES.

The following were elected members of the Society: Messrs. R. A. Austin, Dundalk; E. P. Irwin, Granard; W. H. MacMullan, Larne; and James J. O'Brien, Ballyhaunis.

The following were elected associate druggists: Messrs. R. S. Anderson, Fivemilestown, and John Tosh, Belfast.

The following were nominated for membership of the Society: Messrs. John Beatty, Clones; John J. Cole, Cavan; and Robert W. Hayes, Galway.

This was all the public business.

## Pharmaceutical Examinations.

We have received from the Registrar of the Pharmaceutical Society of Great Britain the following list of persons who were granted Major and Minor certificates, respectively, at the recent examinations held in London:

## MAJOR EXAMINATION.

Abram, Arthur W., Rudston  
Anklesaria, J. D., London  
Crummack, G. C., Doncaster  
Haycock, John, Leicester

## MINOR EXAMINATION.

Adeock, David, London  
Ashton, Tom B., Leicestershire  
Beeson, Francis G., Hereford  
Bennett, Mark H., Derby  
Birchall, Fred, Liverpool  
Blackman, Flora M., London  
Bourn, Samuel J. E., Preston  
Boyes, Margaret A., London  
Braithwaite, Dorothy M., Chingford  
Branson, F. Hartridge, Leeds  
Brazier, Frederick T., London  
Bury, Ernest S., Manchester  
Cocks, William, Oldham  
Cofman, Gabriel, London  
Colston, A. J., Saffron Walden  
Cox, Ernest A., Southampton  
Cundall, Richard P., Sherburn  
Dixon, John E. A., Barnley  
Duggley, Robert, Cranswick  
Edmunds, Percy C., Barry  
Elton, Harold S., London  
Evans, D. A., Newport, Mon.  
Ferris, Robert H., London  
Fox, Thomas Bevan, Brixton  
Freeman, John E., Cardiff  
French, Thomas, Leyton  
Green, George, Humberstone  
Gregson, W. J. Q., Kingsbridge  
Hall, J. R., Kingston-on-Thames  
Harris, William H., Exeter  
Hart, Winnifred D., London  
Heywood, Sophia J., London  
Hill, Fred, Wolverhampton  
Hoare, Bernard G. W., Cromer  
Hockin, F. W., Small Heath  
Holden, James L., Lancaster  
Hughes, John J., Bath  
Isbell, Richard, Fowey  
Jacob, Lydia E., London  
Johnson, Harry, London  
Jones, T. L., Cleobury Mortimer  
Jones, Oliver O., London

Peake, Arthur P., Earlestown  
Read, Bernard E., London  
Reynolds, Thomas W., London  
Tawell, Thomas E., Wakes Colne

## MINOR EXAMINATION.

Knowlson, Lewis A., Easingwold  
Lampiugh, Walter, St. Albans  
Laws, Robert D., Oxford  
Lesiter, Frederick G., Walsall  
Lord, P. H. G., Rawtenstall  
Macalpine, Ellen B., Chiswick  
McCarthy, Harry Y., Blackburn  
McIntosh, John I., Grantham  
Marriott, C. E., Heckmondwike  
Mercer, Ralph, Haydock  
Neal, Arthur Edwin, Lee  
Orchard, Gladys N. C., Darlington  
Paddon, T. H., N. Tawton  
Pain, Gordon N., Cambridge  
Parker, Richard W., Preston  
Payne, Hilliard C., London  
Pickering, Frederick, Rochdale  
Potter, Howard V., Hastings  
Pratt, Walter R., Louth  
Pugh, Alfred F., Liverpool  
Ridges, R. H., Wolverhampton  
Roberts, Ernest E., Senghenydd  
Russell, Eardley E., Hitchin  
Seers, Philip B., London  
Skues, Ernest, Leeds  
Slade, Ernest L., London  
Stagles, Cecil, Petworth  
Stubbs, Henry, Welshpool  
Thomas, John P., St. Clears  
Thompson, John W., Farnworth  
Turton, Arthur C., Burslem  
Tyther, Thomas W., Handsworth  
Walters, David H., London  
Wardle, Thomas H., Ashbourne  
Warrick, Robert W., Welling  
Weston, Arthur C. V., Derby  
Whitby, Arnold S., Yeovil  
Wombwell, Irvin, Cubitt Town  
Woodrow, Bernard J., Plympton  
Worton, John P., Christchurch  
Wright, Edward L., Sudbury  
Wright, T. S., Platt Bridge

The Registrar also sends us the following lists of successes in Edinburgh:

## MAJOR EXAMINATION.

Braes, James Meikle, Edinburgh  
Crowden, Samuel P., Edinburgh

## MINOR EXAMINATION.

Beal, John George, Sunderland  
Blair, Robert M., Dunedin, N.Z.  
Brown, George Geddes, Keith  
Charlton, W., Bishop Auckland  
Coveney, A. H., Edinburgh  
Donald, James P., Edinburgh  
Drummond, Duncan, Callander

Logan, John, Glasgow

McKerrow, Ethel Rebecca, Hale  
McKinty, John W., Aberdeen  
McMinn, Hugh Bell, Wishaw  
Mitchell, William B., Glasgow  
Moir, John Hamilton  
Moss, G., Loughborough  
Norman, Wilfrid, Ripley  
Ogle, R. E., Newcastle-on-Tyne  
Orr, John, East Kilbride

Reed, Jacob G., Sunderland  
Simpson, T. J. C., Montague,  
Ruthin  
Speirs, James M., Glasgow  
Stout, Henry, Edinburgh  
Sutherland, A. C., Peterhead  
Tate, L. J. V., Edinburgh  
Thomson, W. L., Edinburgh  
Waterworth, H. P., Bradford

## Trade Notes.

MESSRS. SOLPORT BROS.' list, referred to in this column last week, is for wholesale buyers only.

MESSRS. W. T. OWBRIDGE, LTD., Hull, manufacturers of lung balsam, have received the Royal Warrant of Appointment to the King and Queen of Spain.

MEDICINE CASES FOR AIRSHIPS.—At the International Aeronautic Exhibition, Frankfurt, Messrs. Burroughs, Wellcome & Co., of London, are exhibiting "Tabloid" First-Aid Equipments, specially designed for use of aviators.

WINCARNS WITH SODA WATER is in request during hot weather. Messrs. Coleman & Co., Ltd., Norwich, write to remind us that this mixture makes an ideal beverage for quenching the thirst. The point should be remembered by chemists who stock Wincarnis.

HUDNUT'S TOILET-PREPARED.—Mr. Charles Brooks, American Drug-stores, 4 Northumberland Avenue, London, W.C., has been appointed agent in England for the toilet and other preparations of Messrs. Richard Hudnut & Co., New York, and will carry a full stock of the firm's goods.

AUSTRALIAN AGENCIES.—Mr. G. M. Campbell, of Messrs. F. Kemp & Co., Ltd., 95 York Street, Sydney, New South Wales, is due to arrive in London next month for the purpose of arranging to represent British firms in Australasia. This announcement is made in an advertisement in this issue.

SEIDLITZ POWDERS.—Messrs. Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool, are giving extra attention to the packing of seidlitz powders, and are making a special offer in this issue. We have received specimens of the boxes used for the powders, and find them in good taste, suitable for chemists' trade.

ICHTHYOL CO.'S JUBILEE.—This company celebrated last month the completion of their first twenty-five years' existence. It may be recalled that when their sulphur-preparations "Ichthyol" (the ammonium-preparation) and "Ichthyolate" (the sodium-preparation) were put on the market they were regarded with a good deal of suspicion; but Professor Unna's endorsement of their value paved the way to general recognition, and ichthyol is now a recognised part of the *materia medica*.

PILLS AND TABLETS.—We have received samples of the products sent out by the Pill, Tablet, and Capsule Alliance, 65 Rose Hill Street, Derby. These comprise pills round and oval in coatings of various colours, tablets both plain and coated, and gelatin capsules. We have tested the solubility of the tablets, and find that under the influence of moisture the coatings rapidly give way and release the contents. These products are sold by the gross or by weight, the prices being quoted in the company's advertisement.

## Recent Wills.

The dates in parentheses refer to the issues of "The Chemist and Druggist" in which the deaths of the testators were reported.

MR. EDWIN WHEELER, Clifton, Bristol, homoeopathic chemist, left estate valued at 4,850*l.* 15*s.* 4*d.* gross and at 1,860*l.* 2*s.* 10*d.* net (May 8, p. 702).

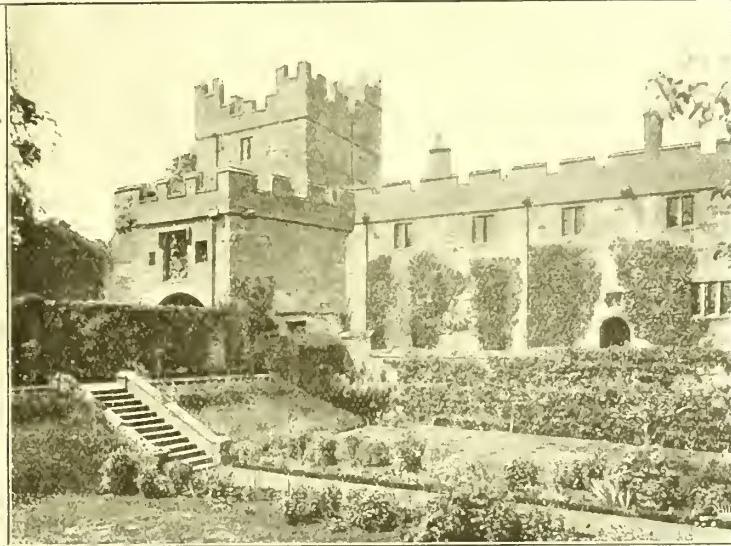
MR. WILLIAM TEASDALE, formerly in business as a chemist and grocer at Youlgreave, near Bakewell, left estate valued at 1,785*l.* gross, with net personalty 1,350*l.* (April 21, p. 645).

MR. THOMAS HENRY BATEMAN, of 5 Cranhurst Road, Willesden Green, N.W., and 223 Finchley Road, N.W., pharmaceutical chemist, left estate valued at 2,680*l.* 10*s.* 9*d.* gross, of which 1,993*l.* 5*s.* 11*d.* is net personalty. Probate of his will has been granted to Mr. S. B. Bately, of 682 High Road, Tottenham, chemist, as sole executor (May 8, p. 702).

## A Northumbrian Excursion.

**A Guide to the All-day Excursion of the British Pharmaceutical Conference on Thursday, July 29.**

ONE of the interesting features of the Conference's circuits is the way in which it takes its members to parts of the country, often differing so widely from each other, but all dear to "him who loves his native land," and



NAWORTH CASTLE.

as the Conference gets older it seems to acquire, in addition to the town it makes its home, a well-defined area of influence in the country around. This time it is Northumbria, not that big Northumbria of the days of the Heptarchy, consisting of the Deira and Bernicia extending from Humber to Forth, when its king Edwin built Ed(w)inburn; but the more modern Northumbria, embracing the counties of Durham, Northumberland, and part, at all events, of Cumberland. And surely this is big enough. Bounded on the north by the broad-based Cheviots and the Tweed Valley; on the east by the restless North Sea; south, by the Cleveland Hills and the Yorkshire Wolds; and on the west claiming the northerly end of the Pennine Chain, the scope is wide, and he will reap a rich reward who devotes a longer time to the exploration of Teesdale, Weardale, Tynedale, Coquetdale, and Tweedside.

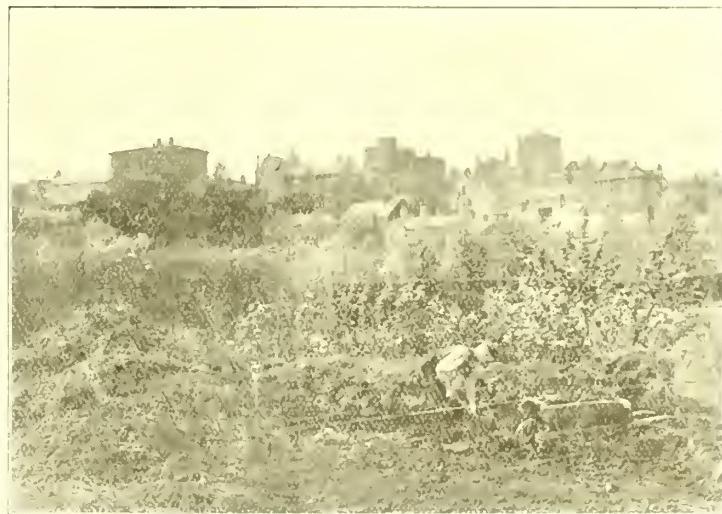
Or, if his tastes in the historic are to form the motive, let him seek the battlefields of Northallerton (the Standard), Neville's Cross, Heavenfield, Hexham, Chevy Chase, and Flodden Field. For the ecclesiastically minded there is Lindisfarne (or Holy Island), the real home from which English Christianity sprang, when Aidan preached it, while Oswald reigned hard-by at Bamburgh, where, says Mr. Freeman, "Above all we feel that we are pilgrims come to do our service at one of the great cradles of our national life." There are Jarrow (Bede) and Monkwearmouth, Hexham (Wilfred), Whitby (Hilda), and the glorious Cathedral and Castle of Durham set upon an island of rock to give an added grace and grandeur to buildings which would still have possessed these qualities if stranded on a featureless plain. If any lingering doubt remains as to whether this district is worthy of his whole holiday, let the reader take up again his "Marmion" and "Rokeby," and let Walter Scott speak as he did to an old friend of

a trip in Northumbria, "Which would have delighted the very cockles of your heart."

To take one part of the district more in detail, the route of the Thursday excursion will be of general interest. The excursion consists of a railway run of about fifty miles west, with three spots where the travellers will have the opportunity of getting closer glimpses of interesting features of the district. For most of the distance the route lies along the valley of the Tyne. Leaving the station, the vast but unpicturesque and even unspectacular range of the Elswick Works fill up the space between the railway and the river, but an opening here and there shows a fine waterway, where large vessels are loading with "black diamonds." As soon as these are past the train crosses the river, and for a few miles runs through Durham county. Passing Blaydon, a good view of the north side of the river is seen, with a forest of chimneys marking the site of the Newburn Steelworks, and just above is the square tower of Newburn Church (either early Norman or Saxon). This place was "hard by the fords," and has been the scene of many a fight and of numberless frays from 1072 up to 1640. Here David of Scotland passed on his way to Neville's Cross, and here General Lesley engaged Charles's troops under Lord Conway. The English army having put up breastworks, still to be seen, to command the fords, Lesley mounted his rude cannon on the church tower and scattered his musketeers wherever cover could be had, and drove out the southern army.

A little further west is the cottage where George Stephenson was born at Wylam.

Ten miles from Newcastle, on an eminence on the left, is Prudhoe Castle, built in 1161 by one of the Umfravilles, whose ancestor had come over with William I.; it was besieged almost before it was completed by William the Lion, and has had many a defence to urge since then. It passed in 1381 to the Percy family, who still hold it. On the other bank of the river is again seen a Saxon church tower at Ovingham. Three miles further on is



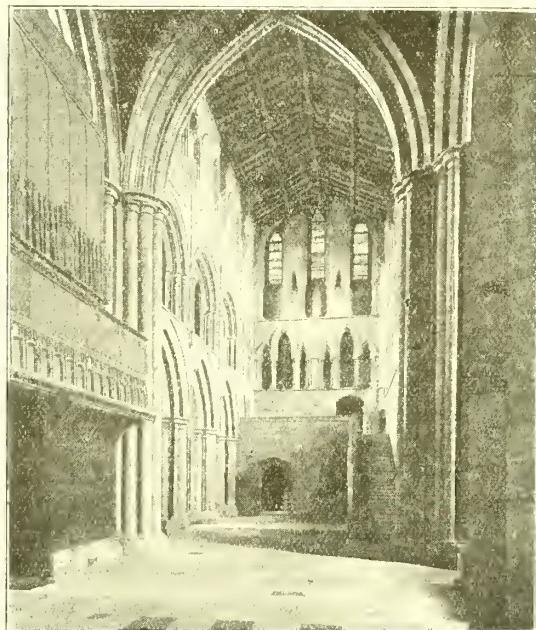
HEXHAM FROM THE RAILWAY STATION.

Bywell, one of Lord Allendale's seats, very beautifully placed by the riverside and embowered in trees.

### CORERIDGE.

Here the first halt is to be made. The town has possessed interest from the fact that here the Watling

Street crossed the Tyne, approaching it from the south-east and then away, away, up towards the fells and on to Scotland. The Roman station occupied a site of at least twenty acres, and owing to the increased interest taken in matters antiquarian a thorough survey is being made; last summer's work is still uncovered, and, with



SOUTH TRANSEPT, HEXHAM ABBEY.

this summer's work, is what will be shown to Conference visitors. This work has revealed a built road from the old bridge up to the station "Corstopitum," and eight sites have been explored. Coins found range from Mark Antony and Domitian (81 to 96) to Valentinian (375 to 392). Urbicus (140) is often named in inscribed stone work, and it is conjectured that he made or remade Watling Street. Corbridge has had the treble honour of being sacked and burned by three illustrious Scotsmen—Wallace, Robert Bruce, and David II.

Corbridge Church was Saxon built, and is well worth a visit. There are two other Pele Towers, one quite close to the church.

Resuming the railway journey, the members of the Conference will pass Dilston, the stronghold of the ill-fated Earl of Derwentwater, and many will remark on the coincidence that last year Conference saw the spot where Scottish rebellion raised the standard on the Braes of Mar, and this year the spot where the simultaneous English rising had its origin.

#### HEXHAM.

Beautifully perched on rising ground, surrounded on the lower side by gardens, and encircled by wooded hills behind, its castellated building and the abbey impress the visitor most favourably. The abbey church will claim attention, its history, is it not written in its stones? In the crypt are Roman stones, probably pillaged from Corstopitum, but the work is palpably Wilfred's, the ambitious haughty prelate, who may be regarded as the first of really English cathedral builders. Canterbury and York and many others owe their origin and their designs to imported prelates and continental architects. Wilfred, who built Hexham and Ripon, was an Englishman, who had been abroad to get his ideas, and came home full of great schemes, but in carrying them out stamped upon

them a new feature, the Saxon element, in his own mental structure, and in that of his workmen. The south transept contains many stones of great interest. The slype or passage leading to the cloisters from it is unique, as it is inside the church, the stone staircase leading to the dormitory, and used for access to and from night-services, is a marked feature. To trace the various additions to the church is beyond the scope of the present article. Recently the nave has been completely rebuilt, owing to the energetic efforts of the Rector, Canon Sydney Savage, a son-in-law of the late Dean Farrar.

#### NAWORTH CASTLE.

When, after luncheon, the train journey is resumed, the beautiful lower end of the valley of the North Tyne is passed, and the course of the South Tyne is followed as far as Haltwhistle, and then the watershed is crossed soon after and the streams show a westward run, and are tributaries of the Eden, finding their way into the Solway near Carlisle. But while still on high land and surrounded by pine woods, the visitors reach the farthest point of their train journey at Naworth.

Just below the station on a rocky perch, surrounded almost on three sides by ravines, is this grand example of a Border stronghold. Built on the site of a former castle, probably tenth century, it was raised, we are told, in 1385 "in magno periculo Scotos." It has never been alienated for 700 years, although twice it has passed by the female line, and ultimately in the times of good Queen Bess it passed in a curious way into the family of the Duke of Norfolk to his son William Howard, who, though he married the heiress, had to pay for the inheritance 10,000*l.* This was the foundation of this branch of the Howard family. The worthy couple lived together for sixty years. This Howard was the "Belted Will" of great renown in Northern England.

The walk down the wooded ravines and across the Irthing is through lovely sylvan scenery, and leads to Lanercost Priory, which was built in the latter part of the twelfth century by Robert de Vaux.

#### ROMAN WALL.

For the whole length of the excursion the route has lain parallel to the line of the great Roman wall, and it is a pity that the rough walking and longer time



LANCER COST PRIORY.

which its survey would involve have prevented the Conference party getting there. Practically the wall runs along the skyline to the north of the valley, through which the railway line runs. Although the Roman wall is not included in the day's excursion, it is believed that

many will be interested to have some details of this extraordinary engineering feat. The wall stretches across England a distance of about seventy three miles from Wallsend on the Tyne to Bowness on the Solway Firth. It consists of a stone wall strengthened by a ditch at a short distance from its northern base, three parallel earthen walls with a ditch sloping down from the northern side of the second of these lines and stations, castles and turrets placed at intervals for the accommodation of troops and communicating by means of a military way. No portion of it now remains as it was when finished, but it is thought that the height of the wall was at least 12 ft. The thickness varies from 6 ft. in some places to 9 $\frac{1}{2}$  ft. in others. The northern face of the wall was continuous, but on the southern side differences in width cause numerous outsets and insets, due probably to the lack of definite instruction to the parties engaged in building the various portions of the wall. Both sides consisted of blocks of freestone, which were sometimes quarried near the spot and at other times brought from considerable distances. The interior was filled with rubble cemented together. The average breadth and depth of the ditch on the northern side were probably 3.6 and 15 ft. respectively. There were twenty-three strongly fortified camps along the route of the wall. From calculations that have been made it is supposed that it would take ten years to build the wall, and that it would cost in the present currency about a million pounds. It would require 10,000 men to garrison its stations. The wall is generally associated with the name of Hadrian, the Roman Emperor (117-138 A.D.), who is supposed to have begun the wall about 121 A.D.; but the building is by some attributed in part to Agricola and Severus, and it is not improbable that the ditches and earthen ramparts are the work of different generals. The purpose of the wall was

## British Pharmaceutical Conference.

A MEETING of the Executive Committee was held at 16 Bloomsbury Square, W.C., on July 8. Present: Mr. W. A. H. Naylor (in the chair) and Mr. F. Ransom



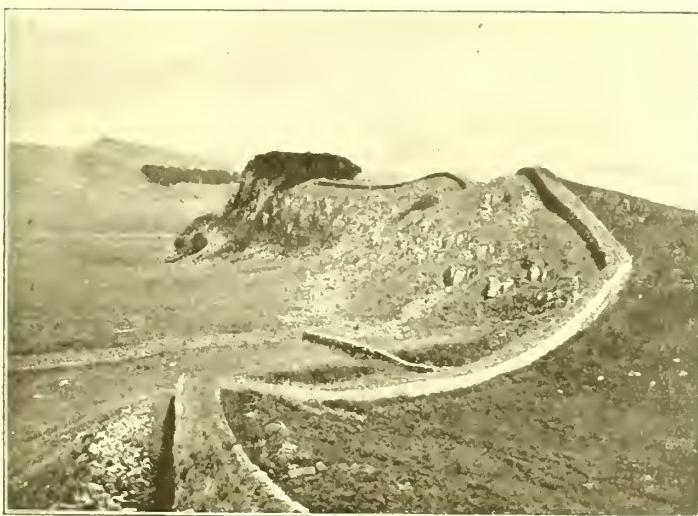
ROMAN WALL AT HOUSESTEADS.

(Vice-Presidents), Mr. J. C. Umney (Hon. Treasurer), Mr. E. S. Peck (Hon. Secretary), and Messrs. E. F. Harrison, Howard, and Martindale. Apologies for absence were received from the President (Mr. J. F. Tocher) and Messrs. Alcock, Finnemore, Hay, Hills, Lunan, Martin, Smith, and Tyrer.

The DRAFT ANNUAL REPORT was read, and after some alterations was approved. The financial statement was presented by Mr. Umney, and found to be satisfactory.

NEWCASTLE MEETING.—The Secretary submitted the list of papers to be communicated at the Newcastle meeting, and the list of officers for the ensuing year was discussed. Mr. Maltby Clague (Hon. Local Secretary) reported that the Lord Mayor of the city hoped to be present at the reception on Monday evening, and that, in the absence of the Principal (Sir Isambard Owen), the Vice Principal (Professor Lebour) would extend a welcome to the Conference on behalf of the University. Also, that in addition to the previously announced items on the programme, Professor Strand has promised to show physical apparatus (including wireless telegraphy) at work in the Herschel Laboratory. A display of quartz ware, etc., shown at the International Congress, and some interesting old pharmacy jars will be on view. A fine display of ornamental turning and geometric lathe-work by Mr. L. Newbiggin, pharmacist, Alnwick, will be given; a collection of daguerrotypes, old wax-paper negatives and apparatus, will be shown by Mr. W. S. Corder, and Mrs. Clague will exhibit some coloured stereoscopic flower studies. On Wednesday evening Professor Bedson has promised to give a demonstration of dust explosions.

CANADA AND THE B.P.—A letter was read from Mr. John Hargreaves, of Toronto, asking that Canadian pharmacists should be represented on the British Pharmacopoeia Revision Committee. It was accompanied by a paper upon the subject which the Secretary was requested to acknowledge and to send copies of it to the pharmaceutical



ROMAN WALL AT CUDDYBRAG.

to define the limits of the Roman occupation of Britain, and to keep out the Picts and Scots, who were looked upon as unconquerable. The last two illustrations, from Mr. J. P. Gibson's excellent photographs of the great work, will convey some idea of the immense undertaking.

**IN THE SUMMER MONTHS** the sun mars complexions. "Pharmaceutical Formulas" tells you how to remedy that. The chapter on toilet-preparations is alone worth the half-sovereign that you get the whole book for. Order through a wholesale house or from the C. & D. Office (10s. 6d. post free).

Press. Mr. Hargreaves, in his letter, also stated that the Registrar-Treasurer of the Ontario College of Pharmacy had been instructed by a resolution of the Council of that body to make application for membership of the B.P.C. on behalf of each member of the Council—thirteen in all.

**THE FOLLOWING NEW MEMBERS** were elected : Messrs. J. O. Barlow, Southsea; R. Blair, Cork; E. Corder, Norwich; C. H. Dixon, Kensington; W. Grieb, London; J. S. Hill, Newcastle-on-Tyne; C. Hodgson, Sunderland; J. F. Hogg, North Shields; R. Ismay, Newcastle-on-Tyne; H. Knott, Bolton; J. G. Murdoch, Birmingham; W. Pescod, Newcastle-on-Tyne; T. Ridley, Carlisle; C. J. Russell, Newcastle-on-Tyne; T. Simpson, Hepple, Morpeth; E. Watson, Bedlington; and B. Williamson, South Shields.

#### CANADIAN FRATERNITY.

The following is the communication from Mr. Hargreaves referred to in the foregoing report :

At the annual Convention of the Canadian Pharmaceutical Association, held in Toronto on September 1 to 4, 1908, the following resolution was approved and adopted :

As the pharmacopoeias are the legal standards for many pharmaceutical galenicals and chemicals that could and should be prepared by every retail pharmacist, if sufficient further information were included in these legal authorities, and as the British Pharmacopoeia and Codex Medicamentarius are the legal standards for all preparations contained therein, for the Dominion of Canada, be it herein recommended—

That our committee place the condition before the Revision Committee of these pharmacopoeias, with a request that Canadian pharmacists be represented on their committee in order that the Pharmacopoeia may be made more useful as well as legal.

Some of the grounds upon which is based the claim for Canadian representation on the Revision Committee of the British Pharmacopoeia, and which we desire the British Pharmaceutical Conference to place before the said committee, are briefly outlined hereafter.

Where a Pharmacopoeia creates the legal standards for drugs and medicines, it must be admitted that each and every revision thereof creates opportunities for amendments and additions thereto, and those who are legally bound to accept the findings of the Committee of Revision should have some legally appointed representative on such Board of Revision.

Canada cheerfully and loyally accepts the legality of the British Pharmacopoeia as the official standard for Canada, by enacting that all pharmaceutical education and all standards for purity and strength be based upon its pharmacopeial requirements. The pharmacist who is educated to and practises his profession and calling on these standards necessarily accumulates experience that should enable him to qualify as an authority of considerable value on many points of information surrounding the official formulary.

Modifications and amendments to pharmacopeial drugs and standards must necessarily suggest themselves to persons making daily use of the authorised guide in Canada, as the greater usefulness of the Pharmacopoeia, at home or abroad, to those governed by its regulations, under definite ethical limitations, should be, and undoubtedly is, the object and desire of the Revision Committee. The advice and opinions of those subject to its jurisdiction, while possessing largely a local significance, would assuredly prove of value in some instances to the imperial authorities in Britain.

Climatic conditions and influences in Canada may so affect some drugs and medicines as to impair their medicinal qualities, rendering their usefulness almost *nil*; therefore we contend that those engaged in pharmaceutical practice in Canada are properly qualified to suggest the required modifications or changes.

Canada, we understand, is perfectly free to make or adopt the standards required in a Pharmacopoeia; she, however, prefers to adopt the standards of imperial authority, and to cheerfully submit to older practices and standards, profiting by the experience of the parent authority, and exhibiting her perfect loyalty thereto. It is an indisputable fact that different countries have different requirements, so that in Canada certain remedies may be very extensively used which in other parts of the empire might not be required at all. Many of these could properly be submitted to the committee to be recommended for inclusion in future issues of the Pharmacopoeia.

Present-day polypharmacy, admittedly a most serious evil, strenuously urged on the physician and pharmacist, is the outcome or result of active and aggressive exploitation by pharmaceutical capitalists. We submit that the dispensing pharmacists are the most capable to suggest and assist in the reformation required to combat this objectionable condition. The professional pharmacist is in close touch with the physician, is fully cognisant of his pharmaceutical requirements, and should therefore be invaluable in revising pharmaceutical

standards for drugs and remedies to be used by the medical profession, while, on the contrary, we maintain that pharmaceutical capitalists are a serious menace.

Accredited representation or membership of the British Pharmacopoeia Revision Committee, duly appointed as such for Canada, can inquire for and collate valuable data in the form of criticism and suggestions with much greater expectation of future practical usefulness than the present system could possibly hope to do. The British Pharmacopoeia is the Canadian Pharmacopoeia in law, but will never serve its true purpose as a perfect and complete Pharmacopoeia, suitable alike for the British and Canadian physician and pharmacist until Canadian representation on the Revision Committee is granted.

In conclusion, therefore, and on behalf of medicine and pharmacy and to the end that a wider usefulness of the British Pharmacopoeia may follow, we make the request that Canadian pharmacists be represented on the Revision Committee of the Pharmacopoeia.

JOHN HARGREAVES,

Chairman Research Committee, Ontario College of Pharmacy, Toronto, Ont.

June 21, 1909.

#### PAPERS FOR NEWCASTLE.

We have received from the Hon. Secretaries the following list of papers to be communicated at the Newcastle-on-Tyne meeting on July 27 and 28 :

1. Some experiences in the testing of drugs by biochemical methods, with special reference to digitalis, squill, and strophanthus, illustrated with lantern-slides. By William Martin, M.A., M.D.
2. The estimation of extractive and glycerin in spirituous galenicals. By W. A. H. Naylor, F.I.C., F.C.S.
3. The comparative examination of the Halogen absorption of oils by the methods of Hübl, Wijs, Hanus, and McIlheny. By J. Stewart Remmington, F.C.S.
4. The chemical constituents of cimicifuga racemosa. By Horace Finnemore, B.Sc., F.I.C.
5. Commercial emulsions. By E. W. Pollard, B.Sc.
6. The chemistry of euphorbia pulcherrima. By J. Stuart Hills.
7. Note on the separation of strichnine from brucine. By G. Pinchbeck, F.C.S.
8. Antimonium sulphuratum. By F. H. Alcock.
9. Pharmacopoeial notes. By D. B. Dott, F.R.S.E., F.I.C.
10. Pharmacopoeial notes. By W. B. Cowie.
11. Determination of gingerol in commercial gingers. By H. Garnet, F.C.S., and Jas. Grier, M.Sc.

#### Discussions.

1. Shall dispensing be confined to pharmacists? To be opened by J. F. Tocher, B.Sc., F.I.C., and replied to by Dr. J. D. Farquharson, of Newcastle.

2. Some problems of the poison schedule. By H. Wippell Gadd, F.C.S., barrister-at-law.

## Personalities.

MR. FREDERICK J. OLIVER, chemist and druggist, Maidstone, has been appointed a Justice of the Peace for the borough.

MR. WILLIAM CROKART, of Montrose, has returned from his trip to Australia, where he saw something of Antipodean pharmacy and of most of the States.

MR. CHARLES KEIR, manager to Messrs. T. E. Jolly & Co., Johannesburg, and a member of the Transvaal Pharmacy Board, arrived in London last week on holiday.

MR. THOMAS KENNEDY, pharmaceutical chemist, 363 Ormeau Road, Belfast, has passed the second professional examination of the Royal College of Physicians and Surgeons of Ireland.

MR. WILLIAM BRIGHT RAWLINSON, of Esk, Queensland, and formerly of Hawick, N.B., has been registered as a pharmaceutical chemist in Queensland on his qualification as a chemist and druggist of the Cape of Good Hope.

MR. G. B. KEY, chemist, Kirkcaldy, has won the cup presented to the Kirkcaldy Golf Club by Sir Michael Nairn, Bart., after a series of close matches and a somewhat exciting finish, when he beat his opponent on the last green.

MR. T. VINCENT HEALY, a partner in the firm of Messrs. Clartton, Hodgson & Co., manufacturers' agents, Hoffnung's Chambers, Pitt Street, Sydney, N.S.W., is now in London on a business trip. Mr. Healy is a pharmacist, and before joining the Sydney firm was associated with two of the leading Australian drug-houses. He may be addressed at the C. & D. Office, 42 Cannon Street, E.C. He expects to be here until the end of August.

## Observations and Reflections.

By "Xrayser."

### The "Magnificent" Act,

as Mr. Rymer Young designated our latest pharmaceutical statute at the annual meeting of the Society in May last—though, it is true, he allowed a certain discount on account of Section 2—is not wearing very well. Sections 2 and 4 are displaying their native uglinesses through the coats of varnish which have been so liberally smeared over them. Now, as usually happens when people resolutely repress their faculty of perception, the cry of "Nous sommes trahis!" is raised, and somebody's head is demanded. Licences to sell poisons have been granted more freely than most of us expected; that is true. But no one who followed the history of the new Act from its inception to its adoption could have been unaware that the Whitehall officials who were its authors were expressly intending to destroy the monopoly of chemists in the sale of poisons to be used in agricultural and horticultural industries. The pharmaceutical representatives always had their choice of accepting this new condition or of doggedly resisting it. If they had preferred the latter alternative, the Bill would not have gone through last year or this. Lord Crewe and Mr. Samuel were liberal with their soothing-syrup at interviews, but they were not allowed by the powers behind them to convert their consolatory phrases into statutory terms, and judges will not be influenced by speeches made to deputations if these are not materialised definitely in the sections of the Act.

### Mr. Birrell's Views

on apprenticeship in pharmacy are interesting—and sound in places. He considers apprenticeship a very good thing, and attaches importance to it; but it is a self-evident proposition to his mind that a company cannot take an apprentice to itself. But thousands of lads are apprenticed to companies in various trades. Apprenticeship is a civil contract, and the company can be sued and penalised if it does not fulfil its part thereof. It is not quite evident from the report what was the "monstrous" (or, *Anglice*, unreasonable) feature in Mr. Boyd's case. If it was merely the technical objection that it was his company, and not he, who kept the open shop, the Chief Secretary's sympathy was, I think, justified. But if the youths were apprenticed to him as a wholesale druggist, and had not the opportunity of learning pharmacy in a retail shop, it is hardly necessary to call on the Pharmaceutical Society for an answer.

### Utter Rottenness

is, it may be hoped, an unnecessarily emphatic description of modern English pharmacy, and Mr. C. S. Ashton is to be thanked for conveying some cheering and wholesome Brighton breezes into the gloomy pessimism in which some of us indulge. But Mr. Boot's letter follows Mr. Ashton's, and I am not quite sure whether it is calculated—I do not say intended—to encourage or depress us. Mr. Boot appears to discredit some figures I gave last week, and alludes to my estimate of the average profits of the 102 shops carried on by his "Eastern" company as "the merest guesswork." But there was no guesswork in dividing 23,236*l.*, the net profit of the "Eastern's" past year, by 102, the stated number of its shops, and bringing out 227*l.* and a few shillings as the average of each establishment. I neither had nor have any desire to pry offensively into the affairs of the Boots companies, but these figures were published,

and providing, as they did, a "line" for comparison, seemed a fair topic for comment. Mr. Boot's various companies (this is from his own speech) absorb "over 500 qualified pharmacists"—say, one-twentieth of our whole body. Other companies and stores employ perhaps as many, perhaps more, and it is not very reckless guesswork to assume that the thousand pharmacists thus accounted for average a less income than 200*l.* a year each. That sum, added to the 227*l.* average net profit which each "Eastern" shop contributes to the company's total income, is the revenue which a qualified chemist and druggist might hope for if he were himself the owner of exactly such a business. This was pretty much what I said. Mr. Boot now adds the important consideration that to become the owner of such a business my pharmacist must be prepared to risk the modest amount of 3,500*l.* to start with. Thus, therefore, we are landed, by guess-work and arithmetic combined, at the conclusion that an intelligent youth who sacrifices many of the legitimate pleasures of the earlier period of his life in order to fit himself for pharmacy, with 3,500*l.* to spare, and willing to work hard all the year through, may arrive at an income of about 400*l.* a year, after paying the numerous guineas which the several societies connected with his trade will exact from him. All I say is that the remuneration is not good enough for the service rendered to society.

### Society Cannot Help

us to a better state of affairs, capitalists are not to blame, it is not even the fault of the Government. Almost every class of ability is in too abundant supply. Doctors have been complaining for a long time of the way they are exploited by clubs, and lawyers are being similarly pinched. The Law Society last week appointed a committee to consider "the employment of salaried solicitors by trading and other corporations, and even by individuals, with a view to directly or indirectly sharing the profits of litigious and other legal business." This looks as if Mr. Whiteley or some other provider has started a "law-suit department." The legal profession can find a remedy if anyone can, and the report of the committee will be interesting if not useful.

### The Patent-medicine Business

is becoming a favourite *deus ex machina* with novelists who wish to confer boundless wealth on their heroes and heroines without much exertion; for it will be noticed that these interesting characters usually come into fortunes but rarely do a day's work. Mr. H. G. Wells made the invention and sale of "Tono-Bungay" the central feature of his most recent story. Mr. Storer Clouston established and maintained the dignity of his "County Family" out of the profits of a gilt electric pill of wide fame, but the association of which with themselves terribly shocks the younger members of the Family when they come to know it. In the July number of the "Lady's Realm," the well-known Anglo-Dutch writer Maarten Maartens uses the quack-medicine idea in a short story called "Ten Million a Year" (the ten millions referring to pills, not pounds). Aunt Deborah has a collection of old prescriptions, and she is fond of dosing her friends and acquaintances. One of her compounds grows popular, and a worthless nephew—a medical student who cannot pass his examinations—persuades his aunt to advertise it. Success is immediate and enormous. Jessie is a young girl whom Aunt Deborah has befriended, and who has to manage the business of "Aunt Deborah's Pills." Chris, the bad medical student already referred to, wants to marry her; so does Frank, a good medical student who has passed his examinations but who disapproves of this business. She loves Frank. She comes of age, and then it turns out that the collection of prescriptions, including the one which has created such a boom, had been left to her. Now for the tableau. In presence of all the characters of the story she tears up the prescription, Frank smiling and Chris gnashing his teeth. And thus and thereby the reader realises that the whole concern is hopelessly annihilated. It is magnificent—but it is not business.

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## Editorial Comments.

### New Minor Certificate.

THE latest Bloomsbury Square achievement is a new Minor examination certificate printed on a piece of whity-brown coloured Manilla paper measuring about a foot long and six inches deep, and bearing the following inscription :

## Pharmaceutical Society of Great Britain.

The Examiners appointed by the Council under the Provisions of the Charter of Incorporation and the Pharmacy Acts, 1852 and 1868, having examined , are satisfied that he has sufficient skill and knowledge to be Registered as a Chemist and Druggist, under the provisions of the Pharmacy Act, 1868.

Chairman of the Board.  
London, 19 .

This extraordinary production is not more elegantly printed than the above—our type is similar, but on a smaller scale. The print replaces the engraved script certificate which has been granted by successive Boards of Examiners since examinations were instituted by the Society. Apart from the falling-off in elegance the certificate is notable for two reasons. The first is that it is no longer signed by the Examiners but by the Chairman of the Board, and the second is that the legality of the wording is questioned. As to the first, the certificates which have been issued in London this month are signed by Mr. Harrington, the President of the Society, and those issued in Edinburgh have been signed by Mr. D. B. Dott, the Chairman of the Board of Examiners for Scotland. We believe there will be very

general regret at this change, which also includes the Examiners' Major certificate. Minor and Major men alike have always been proud of the signatures of the Examiners attached to their certificates, and it has reasonably been inferred that Section 6 of the 1868 Act requires the Examiners, and not the Chairmen of the respective Boards alone, to sign the certificates as well as grant them. That is a practice cherished by custom if not obligatory under the Charter and Pharmacy Acts, according to which the Examiners are the persons appointed to that duty by the Council of the Society and approved by the Privy Council. The President and Vice-President are *ex officio* members by by-law, and are not, like the appointed Examiners, approved by the Privy Council. We have been told that the reason for the change is some difficulty which was experienced on the Board of Examiners for England and Wales as regards the signatures of the professorial Examiners, and the Council, instead of facing this difficulty boldly, has changed the form of the certificate so as to exclude from it the signatures of Examiners. But another explanation advanced is that it is a kind of modified compulsion on the successful Minor candidates to become members of the Society in order to get more elegant certificates than the new one, which a well-known pharmacist tells us "is simply atrocious and more like a dog-licence than anything else." We think that remark is hard on the dog licences. It may be recalled that the Society's By-law XVIII., 4, is to the effect that "diplomas and certificates shall be in such form as shall from time to time be determined by the Council." If the word "form" is meant to cover the wording of the certificate, we submit that the wording should accord with or approximate to the statute, and this the new form does not. Section 6 of the 1868 Act provides that—

Every person who shall have obtained from them [the Examiners] a certificate of *competent skill and knowledge and qualification* shall be entitled to registration as a chemist and druggist.

The wording of the old certificate was as follows :

We, the undersigned, Examiners appointed by the Council under the provisions of the Charter of Incorporation and the Pharmacy Acts, 1852 and 1868, having examined

do hereby certify that he is duly qualified to be Registered as a chemist and druggist under the provisions of the 31 and 32 Vic. cap. 121.

Then followed spaces for the signatures of the Chairman and eight Examiners. The document was a certificate in so far as it *certified*, and the wording was dignified, the phrase "duly qualified" being a particularly happy abbreviation of "competent skill and knowledge and qualification"; hence it was a certificate of qualification. What the new certificate says is that "the Examiners are satisfied that he has *sufficient skill and knowledge* to be registered as a chemist and druggist." There is no reference to qualification. The words "sufficient skill and knowledge" nowhere occur in the 1868 Act; they are embodied in Section 4 of the 1908 Act in connection with the registration of persons holding Colonial diplomas, qualified military dispensers, and apothecaries' assistants who produce evidence that they "are persons of *sufficient skill and knowledge* to be so registered." It is questionable if a document which departs so widely from the certificate provided by Section 6 of the 1868 Act is in accordance with the statute. The omission of the word qualification is either an inexcusable oversight or a deliberate attempt to evade the express requirement of the 1868 Act that persons who satisfy the Examiners shall receive a certificate of skill, knowledge,

and qualification. As to this more will yet be heard, no doubt. In the meantime the Registrar is registering the persons who receive the new document, so that there is no fear on that point. The inception of the change dates from the time that the "certificate of qualification" came to be a more important asset to chemists and druggists than it was before April 1, 1909. Then the authority of the Society and all its weight was used to persuade registered persons that the Minor certificate is not a certificate of qualification within the meaning of the 1908 Act. The object of this extraordinary statement was to get chemists to join the Society or to buy another certificate for which an annual charge of a shilling is made. The opinion which Mr. Danckwerts, K.C., gave us pricked that bubble; but the Society's propagandists (a section of the staff who are supported by a few members of Council) still repeat their fallacy about the Minor certificate, qualifying it with the statement that it will be accepted. If these same persons have not fathomed the new certificate, it deserves to be laid at their door, for, as we have pointed out, it has been so worded that all reference to qualification is excluded from it. It looks like an attempt to "get even," but it is difficult to imagine that this "slim" work has the sanction of the Council, or that the members can have looked into the matter as intimately as they should have done. No harm can result if they reconsider the question at the next meeting and again alter the form of the document so that it will declare that the person named therein is of competent skill and knowledge and qualification, and that the undersigned is authorised by the Examiners appointed, etc., to certify that the person is entitled to be registered as a chemist and druggist. It will not cost the Society many shillings to scrap the objectionable forms and provide a certificate such as we have indicated.

### Italian Pharmacy Bill.

The interest which was manifested last Session throughout Europe, and not less by certain circles in this country, in the proposed reform of Italian pharmacy law is still fresh in the memory. The Bill was withdrawn, partly on account of the difficulty of getting Parliamentary time to proceed with it, and partly owing to the foreign resentment to certain of its provisions affecting the importation of proprietary medicines. A slightly altered Bill was introduced recently, and has now been referred to a Committee, with Signor Bacelli as Chairman and Signor Vendetti as reporter, the duty of the latter being to inquire into the whole matter and report to the Committee in November when the Chamber assembles. The Committee is stated to be in favour of the Bill as it stands. It may, therefore, be of service to recall its contents. So far as retail pharmacy is concerned, the Bill takes up the present provision of limitation of pharmacies according to the population, and creates what are, substantially, Government pharmacies, for the "Prefetto," who is the political authority of the province, will be the head of pharmaceutical affairs in his province. One shop will be allowed for every 5,000 inhabitants—a proportion which is quite inadequate. With such a law in this country Birmingham would have only forty shops, and Brighton about twenty-five. The "Prefetto" will decide the position and number of shops in his province: some that are still open, although the actual owners have died, will be closed. The "Prefetto" will in place of these grant concessions for new openings in places, especially in rural districts, where they are badly wanted. Only qualified pharmacists will be allowed in the pharmacies. Unqualified assistants, who

are now very few in number, will no longer be seen in Italian pharmacies. The concession of a shop or the right to open one will be granted to a pharmacist after passing some special examinations and after paying a fee of from 20*l.* to 320*l.*, according to the importance of the town; so that, while those who have plenty of money have the best chance of getting a shop, they must also show that they have the skill and capability to deserve it, otherwise money alone cannot buy it. The fortunate candidate chosen will have the use of the shop during his lifetime, and cannot bequeath it, for at his death it will be handed over to somebody else in the same way. Further, the Bill obliges the pharmacist to carry on business in a strictly personal way, as a business can never be sold or given over to somebody else. Thus the conditions of the pharmacists will be similar to those of the country doctors, who have a special area without the competition of any other doctors; but at their deaths the place is given by the County Council to someone else. A tariff of prices will be published by the Ministry of the Interior every two years. Companies, co-operative societies, or other combines of any kind will not be allowed to carry on a pharmacy business. The greater number of Italian chemists are in favour of the Bill, but it is to a certain extent a restriction upon personal activity. The Federation of all Pharmaceutical Societies throughout Italy is delighted with the Bill. The part of the old Bill which created unrelenting opposition (Clause 19) provided that owners of proprietary medicines might sell their goods direct to the public without passing through the chemist's shop. The Federation rose in arms against this proposal. Pharmacists particularly objected to the wide terms of the reference to proprietary medicines or patents, which, they urged, might be construed to include any dispensed medicine, and the result would be that pharmacies would be denuded of their business, which would be done direct between the manufacturers and consumers or through shop agencies of the former. This matter has not yet been made clear to the satisfaction of retailers, who have the support of the majority of wholesalers and manufacturers. Many of the leading firms support the retail pharmacists on this point. English and other foreign firms having business relations with Italy will be little affected by the proposal, as at present they generally do business only through retail chemists or the wholesale houses.

#### Assimilation or Burial.

The Edinburgh District Chemists' Trade Association has prepared and printed a statement regarding the reconstruction of the Federation of Local Pharmaceutical Associations. It does not favour the Plymouth scheme, but again advocates assimilation with the British Pharmaceutical Conference, which it is stated could be easily, safely, and advantageously secured under Article 1, Section 4, of the B.P.C., which enables the Conference to "form a bond of union among the various Associations established for the advancement of pharmacy." The Edinburgh Association delegates will accordingly at the Federation meeting in Newcastle move the following resolution, which is on similar lines to that submitted at Manchester in 1907 :

That immediate steps should be taken to approach the Executive Committee of the British Pharmaceutical Conference, with a view to having effected any changes necessary in the constitution of the latter body to enable the scheme herein recommended to be carried out at the next following Meeting of the British Pharmaceutical Conference, in accordance with Rule 9 of the Conference constitution.

It is pointed out that by adopting the American Pharmaceutical Association's sectional plan, and having a Committee for Commercial Interests, and a section of the Con-

ference limited to the discussion of matters affecting trade interests, the Conference proper would not be entangled with political questions or trade interests. There is an impression abroad that the Federation will expire on Friday, July 30, and this Edinburgh proposal may be taken as a suggestion for an inexpensive funeral. If the Federation is to die it will be because it has fulfilled the objects for which it was brought into being, and there is no further immediate use for it. Why should the Conference be saddled with the corpse? The American sectional system is useful in a measure, but we have frequently heard members of the A.P.A. say that the Commercial Section has done the Association little good and much evil. This is a point upon which there should be full inquiry before the plan is adopted by the B.P.C.

#### Agri-Horticultural Pests.

The Board of Agriculture and Fisheries have just brought out two leaflets dealing with (1) Brown scale of the gooseberry and currant, and (2) Oyster-shell bark-scale. The "brown scale," a variety of the peach scale, is an insect found in great abundance on gooseberry, currant, rose, plum and cotoneaster plants. It shows a decided preference for the older branches. The leaflet (No. 223) gives a description of the insect and the life history, and concludes with notes on remedies and methods of control. Spraying in the early part of February with a caustic-soda wash is the only practical way of controlling or destroying the pest. The washes recommended are the following :

##### *Caustic-soda Wash.*

(Woburn Wash.)	
Iron sulphate ...	½ lb.
Lime ...	¼ lb.
Caustic soda ...	2 lb.
Paraffin ...	5 pints

Water to make 10 gals.

Dissolve the iron sulphate in about 9 gals. of water and make a "milk" to the lime.

Then run the milk of lime through a strainer into the iron solution and churn the paraffin into the mixture. Add the caustic soda in powder form just before using.

##### *Paraffin-soda Wash.*

Caustic soda ...	2 lb.
Soft soap ...	½ lb.
Paraffin ...	5 pints

Water to make 10 gals. Dissolve the soft soap in a gallon of boiling water, add the paraffin while the soap-solution is still hot, and churn thoroughly until an emulsion is obtained. Dissolve the caustic soda in the rest of the water just before using, and then pour into the paraffin emulsion. Mix well and use at once.

It is as well for the operator to guard against injury from the caustic soda by wearing rubber gloves and goggles. The paraffin-soda wash is also suitable for applying to fruit trees affected by oyster-shell bark-scale, about which information is given in leaflet No. 210.

#### "Chemists" in New South Wales.

We are informed by Messrs. Mace & Haldane that they have received a cabled message from Messrs. F. Kemp & Co., Sydney, N.S.W., asking them to see that goods which are sent out to Australia should not bear the title "chemist" or "chemists" on labels bearing the customer's name and address. Messrs. Mace & Haldane say that they do not know what it means, but they conclude that Messrs. F. Kemp & Co. would not go to the expense of cabling unless there was something important behind it. Nor can we throw any light on the matter. There is no new law in New South Wales prohibiting the use of the title "chemist" on labels intended for persons who have the right to use the title. It is not improbable that the Customs authorities may have made a ruling under the Commerce Act in respect to the use of the title in such a manner as to constitute a false trade description so far as New South Wales is concerned, and in respect to traders in the State, but we cannot imagine that the Customs authorities would reject goods bearing labels with a description of manufacturers as chemists who are actually so in accordance with the law of the country in which the goods originate. The new regulations under the Pure Food Act, which came into force on July 1, do not, as far as we are aware, contain anything respecting chemists' titles.

## Westminster Wisdom.

A Record of Parliamentary Progress.

### FINANCE BILL.

**THE VET. AND HIS MOTOR.**—Now that the medical men are to secure special treatment from the Chancellor of the Exchequer in regard to the tax on motor-spirit, a claim is being put in on behalf of veterinary surgeons. Mr. Galloway Weir, M.P., is to put a question to the Chancellor on the subject.

**QUESTION OF REBATE.**—Replying to Mr. W. O'Malley, M.P., on Wednesday, July 14, the Chancellor of the Exchequer said that, in the event of a proposed extra duty on spirits being finally fixed by the Finance Act below the amount specified in the Bill without any provision being made by the Act in respect of such duty levied before the passing of the Act under the resolution of the House of Commons, the difference will be refunded, but no interest allowed.

**WINE LICENCES.**—Mr. Buckmaster proposes to ask the Chancellor of the Exchequer on Monday whether he can now state his intentions with regard to altering the principle on which the Bill proposes to assess licence duty on grocers' licences. The suggestion is that an *ad valorem* tax would be more acceptable than the present system of grocers' licences. Those chemists who favour the idea should write without delay to their member of Parliament asking him to use his influence in that direction with the Chancellor of the Exchequer.—*EDITOR C. & D.*

**SPRIT-DUTIES.**—Sir John Batty Tuke, M.P., has given notice of his intention to move to add at the end of Clause 61 the following :

Provided that it shall not be lawful to sell for consumption whisky or other spirits, except for export, which has not remained in cask or bond for a period of not less than three years.

[Clause 61 provides for the additional duty of 3s. 9d. per proof gal. on spirits. Sir John's addition would probably make it impossible to get recently distilled rectified spirits.—*EDITOR C. & D.*]

**BENZOLINE IS TAXED.**—In the House of Commons on July 12, Mr. P. Foster, M.P., asked the Chancellor of the Exchequer whether the tax of 3d. per gal. on benzoline would be remitted to those small retailers, such as chemists, who do not sell it or other spirit for use in mechanically propelled vehicles, but only for the purpose of burning in lamps or for other similar purposes.—Mr. Hobhouse replied that his right hon. friend regrets that he does not see his way to allow a rebate to be paid to other persons than the actual users, nor will it be practicable to apply the regulations for the supply of duty-free spirit under bond to these small retailers.

**SPIRIT FOR HOSPITALS.**—In the House of Commons on Tuesday Mr. Hobhouse, for the Chancellor of the Exchequer, stated, in reply to Sir Thomas Bramson, M.P. for Portsmouth, that he had no data upon which he could say what loss there would be to hospitals, infirmaries, and dispensaries through the duty on spirits. Except in the case of drugs prepared on the premises he did not see how the officers of the institutions in question would be able to make an accurate return of the amount or strength of the spirits used. In a subsequent conversation with our Parliamentary representative, Sir Thomas Bramson said the case of the hospital or public institution which is entirely dependent upon voluntary contributions in contradistinction to those which are to a large extent maintained by endowments is especially hard. In his own constituency such a case is to be found in the Portsmouth Hospital, which is entirely so supported. An estimate had been made in the case of that hospital, and it had been ascertained that the Governors would have to pay an additional yearly sum of no less than 35*l.* Sir Thomas saw no difficulty in making such an estimate in the case of other hospitals and institutions, and he proposes to return to the matter at an early date.

### WOMEN AND THE ROYAL COLLEGE OF SURGEONS.

Dr. Rutherford, M.P., asked the Home Secretary in the House of Commons on Wednesday whether, in view of the

fact that the Royal College of Surgeons is unable, through the provisions of the Medical Act of 1876, to confer the rights and privileges of the College on women who were admitted to its diplomas, he proposed to grant a new charter to the College. The Home Secretary, in reply, said he had no power to take any such action. He understood that a supplementary charter for the Royal College can only be granted by the Crown on the petition of the governing body.

### THE GOVERNMENT HOPS BILL.

We are informed that Earl Carrington is being asked to receive a deputation from the representatives of the hop-industry, in order that attention may be directed to various points in the Bill which are at variance with that which has been introduced on behalf of the industry by Viscount Hardinge. One of the principal points is the definition of the word "hop-substitutes," which in the Government Bill is left in a very unsatisfactory position—so much so that litigation is bound to follow. In Lord Hardinge's Bill this is made perfectly clear. Again, in the Government Bill the use of hop-substitutes is only prohibited in the brewing of beer, whereas in Lord Hardinge's Bill the use of all hop-substitutes is prohibited in the brewing and preservation of beer.

### POISONS AND PHARMACY ACT.

In the House of Commons on Tuesday, July 13, Mr. E. A. Ridsdale, M.P. for Brighton, asked the Home Secretary whether it is a fact that certain specified dispensers are prevented from dispensing prescriptions containing poisons pending the promulgation of by-laws for their registration by the Pharmaceutical Society, and, if that be so, whether he would use his influence to have these by-laws issued at the earliest possible moment. Mr. Gladstone, in reply, referred the hon. member to the answer which he gave on July 6 on this subject (see *C. & D.*, July 10, p. 48).

It is rumoured in the Parliamentary lobbies that the Pharmaceutical Society intend to get a decision in the Courts as to the correct interpretation of Section 2 of the Act relating to the sale of agricultural poisons. It may be recalled that Mr. Philip Snowden, M.P., brought the question under the attention of the House of Commons, and subsequently forwarded to the Pharmaceutical Society a list of places where it was alleged that licences were being granted to ironmongers and others for the sale of agricultural poisons where the existing chemists already furnish adequate facilities for the general public. It is understood that the point to be determined in the Courts—assuming that to be the intention of the Society—is as to what constitute "adequate facilities." [This rumour simply reflects what the Pharmaceutical Council discussed last week, but is reported as a matter of interest.—*EDITOR C. & D.*]

### THE CORONERS' COMMITTEE.

We are informed that one of the last witnesses to be examined before the Departmental Committee on Coroners' Law was Viscount St. Aldwyn, who brought to the attention of the committee several cases which had occurred in Gloucestershire, in which, in his opinion, *post-mortem* examinations had been held unnecessarily.

### THE SHOP-HOURS BILL.

It is not too much to say that a good deal of anxiety is being exhibited on all sides of the House of Commons as to the continued delay on the part of the Home Secretary in the introduction of the long-promised Shop-hours Bill. On Tuesday next, in the House of Commons, some definite statement as to the intentions of the Government in regard to the question is expected.

### VETERINARY SURGEONS AND THE TERRITORIALS.

The War Office has been treating veterinary surgeons in a similar manner to what they have accorded to chemists, with the result that the Council of the Royal College of Veterinary Surgeons advised members not to join the Territorial Force. Mr. Haldane has had an interview with the President of the Royal College and has made proposals which have been accepted, and members are now invited by the Council to join the Force in the capacity of veterinary surgeons.

## Agri-Horticultural Poisons.

### Notices of Application

for licences under Section 2 of the Poisons and Pharmacy Act have been lodged with the local authorities named.

Subscribers and others would oblige us by sending information with reference to applications. Copies of newspapers containing the advertisements of applicants would also be esteemed.

ABERDEENSHIRE.—Jas. Grieg, Finzean.

AYRSHIRE.—Robt. F. Currie, seedsman, etc., Stewarton.

BELFORD.—John Laing, ironmonger and patent-medicine vendor, Market Place.

BERWICK.—Andrew Martin, seedsman, 48 Bridge Street; Jas. T. Robson, ironmonger, 12 Bridge Street.

BUNGAY.—Thos. Smith, seedsman, Earsham Street.

GRETNA.—Thos. Jardine, merchant, Springfield.

HEREFORDSHIRE.—Wm. Gregg, High Street, Woobley.

LISKEARD.—Blamey & Marcom, Ltd., agricultural merchants.

LIVERPOOL.—Chas. A. Young, nurseryman, 14 Mill Lane, West Derby.

MERIONETH.—Owen Edwards, general dealer, Abergwynwyn.

NAILSEA (SOMERSET).—G. D. Perkins and Wm. A. Pollard (Imperial Veterinary Medicine Co.), Wraxall Mills.

STRATFORD-ON-AVON.—J. Newland and Wm. Stidolph, ironmongers, 5-7 High Street.

### Consideration of Applications.

ABERDEENSHIRE.—The General Purposes Committee of the county had thirty applications before them on July 9. A deputation, consisting of Messrs. J. Rutherford Hill, J. F. Tocher (Peterhead), J. R. Reith (Cults), James Paterson, and W. F. Hay, with Mr. Alexr. Blacklaw, solicitor, awaited upon the committee.—Mr. Blacklaw argued that legislature is strongly averse to the vending of poisons in places where food is exposed for sale. He quoted Regulation 13, which had direct reference to the whole of the applicants, who might be classed as general merchants, many with very small premises, and he warned the authorities of the necessity and difficulty of such licensees conforming with these requirements. Mr. Blacklaw maintained that, as every one of the chemists in the applicants' district kept the requisite poisons, farmers already possessed sufficient facilities for obtaining sheep-dip, etc.—Mr. J. Rutherford Hill said that in many of the cases the applicants did not carry on any considerable trade in poisonous dips, but were influenced by the feeling that, as others had got licences, it might be an advantage to have one. Mr. Hill then dealt with the dangers arising from the sale of poisons by untrained persons—Mr. John Munro, solicitor, having spoken for the applicants, it was mentioned that the deputation were not opposed to four applications from isolated districts where there are no chemists within easy reach.—A motion that all the licences be granted was then put, and also an amendment to refuse all but the four unopposed applications, but the voting resulted in a tie. The Chairman reserved his casting vote. The unopposed applications (see "Applications Granted") were granted accordingly, and consideration of the remainder deferred until the next meeting.

BROMLEY.—The application of Mr. A. Davis, of Salisbury Road, has been referred to the General Purposes Committee.

CAMBRIDGE.—The seedsmen who were refused licences by the Town Council at the last meeting have petitioned the Council to reopen or reconsider the matter, and it came up on Thursday, but too late for report in this issue.

EASTBOURNE.—In consequence of a protest from the local Chemists' Association, the Town Council has referred back to the Watch Committee their recommendation in favour of issuing licences.

FOLKESTONE.—A deputation of local chemists, consisting of Messrs. J. W. Stainer, J. J. Giles, and L. J. Giles, awaited upon the Watch Committee on July 5 in opposition to the application of Messrs. G. & A. Clark, Ltd. Mr. Stainer, who acted as spokesman, quoted Lord Crewe from the *C. & D.* report of July 18, 1908, to show that licences were intended to be issued only in places without chemists. He pointed out the particularly dangerous character of the poisons to which the applicant desired to sell, and impressed upon the committee that the Board of Agriculture did not recommend the use of either of these two virulent poisons. He considered it essential for the public welfare that the sale of poisons should be restricted to properly trained vendors—the chemists.

HEREFORDSHIRE.—The County Council on July 10 received a report from its General Purposes Committee stating that no applications had been received. The Council delegated its power of granting applications to the committee, a motion that the committee consider them and report to the Council being rejected by seventeen votes to twelve. It was men-

tioned that two applications have been received since the preparation of the report.

LONDON.—The recommendations of the Public Control Committee (*C. & D.*, July 10, p. 60) came before the County Council at the last sitting. In reply to a question by Mr. Frank Smith, the Chairman of the Committee (Mr. Simmons) said that it was true that the Act was primarily passed to deal with country places. Poisons had been sold by seedsmen in the past—illegally, no doubt—but it was better they should have the right to sell them under licence. The committee were satisfied that the chemists would not be a convenient medium for the public, as they had never vended the particular preparations to any extent, and did not know what the public wanted for horticultural purposes. Therefore it was thought that it would be better to let the substances be obtained through "responsible persons." Mr. Frank Smith and Dr. Forman desired the matter to be referred back to the committee, but the report and recommendations were adopted.

TORQUAY.—A deputation of the local Chemists' Association is to await upon the Watch Committee *re* two applications on July 16. Councillor J. Young, pharmacist, also intends to debate the matter at the next Council-meeting.

TUNBRIDGE WELLS.—In connection with the deputation of the local Chemists' Association to the Town Council last week (*C. & D.*, July 10, p. 60), Mr. A. E. Hobbs said the seventeen chemists in the borough amply met the requirements of the district. He believed that none of the applicants had brought forward any evidence that there was any inconvenience. Horticultural preparations required the greatest precautions during their sale. One of them, a strong preparation of nicotine, was described as "the most safe and effectual," and yet it was so potent that absorption by the hands caused sickness, while medical testimony showed that one nicotine insecticide was as powerful a poison as prussic acid. The demand for insecticide was not made by the public, but created by the manufacturers. In few instances were the articles required in horticulture, but chemists, knowing their potency, felt that florists were not the persons to vend them. Both the Coroner and the medical officer considered that the issue of licences would endanger the safety of the public.—On the Watch Committee's recommendation to grant the three applications opinion was evenly divided, those in favour contending that as seedsmen had sold insecticides without restrictions in the past, it could not be more dangerous under licence. "Monopoly" and "creation of the trade by seedsmen" were also mentioned. It was stated that the use of insecticides would decrease if their sale was confined to chemists. The opposing section, who carried their amendment, considered that the illegal sale in previous years was no reason in favour of the applicants, and that the chemists already afforded sufficient facilities. Councillor Stone pointed out that two of the applicants were in business almost opposite chemists' shops. During Councillor Elwig's comment that Coroners stated that poisons were often obtained with too great ease, an interjection was made of "Where are those poisons obtained?" Mr. Elwig said he thought that might be asked, yet some wish to increase the facilities for obtaining them.

WARRINGTON.—The Health Committee, after again considering the licence question and hearing Mr. W. B. Forshaw on behalf of the two applicants, have held to their decision recommending the refusal of the applications.

### Applications Granted.

ABERDEENSHIRE.—The following applications from general merchants were unopposed: Thos. Dawson, Newkirk, Dinnet; D. Knox, Cuminstown; Mrs. J. Watt, Lyne of Skene; and Jas. Macintosh, Bridge of Forgue.

BOURNEMOUTH.—The Town Council confirmed on July 6 the Finance Committee's recommendation to grant the applications of Messrs. Thos. K. Ingram, 35 Old Christchurch Road; Wm. H. Bright, 1 and 2 Metropole Buildings, Holdenhurst Road; G. Watts & Sons, Holdenhurst Road; and John Phillips, Seamoar Road, Westbourne, nurserymen, by seven votes to five.—The Inspector of Police reported that two chemists at Westbourne and two others at the east end of Holdenhurst Road sold various kinds of insecticides, tree-washes, and weed-killers.

BROMLEY.—The Town Council, at the third consideration, decided on July 7 to grant the application of Messrs. G. Weeks & Sons, ironmongers, High Street. The General Purposes Committee first recommended the grant, then the refusal, and finally decided in favour of the applicant. Mr. Comins, however, questioned whether the committee had still sufficiently considered the "reasonable requirements" condition.

CHESTER.—P. Burtonwood and Chas. Jones, seedsmen and implement-merchants, 2 Brook Street and The Smithfield.

DUMFRIESSHIRE.—Jas. Hetherington, blacksmith, Clarencefield, Ruthwell.

DUNNS.—R. Hogg Shaw (Hogg & Wood, seedsmen).

FAVERSHAM.—H. S. Tett & Co., Ltd., ironmongers, 10 and 11 Market Street, and F. T. Hart, nurseryman, 118 Ospringe Road. At the Town Council meeting on July 7 Mr. Jenkins contended that the Council had no ground whatever for granting the applications, since there was no indication of the public preferring to get horticultural poisons from ironmongers or florists, instead of the chemists, who already afforded ample facilities. Alderman H. R. Child, Mr. Lee Smith, and Mr. Jordan supported this view, while the medical officer also gave his opinion against allowing unqualified persons to sell poisons. The applications were granted by eight votes to four.

GLOUCESTERSHIRE.—John Jefferies & Son, Cirencester; J. Richards & Co., seedsmen, Dursley; G. Bishop & Sons, Stroud; and John Price & Son, Ltd., Stonehouse, nurserymen.

GRANTHAM. The Watch Committee recommend that the applications of Messrs. W. & Jas. Brown and Chas. Sharpe & Co., Ltd., be granted, on the ground that the applicants were persons to whom anyone requiring the specified poisonous substances would apply, and that the supply was part of their trade. The recommendation came before the Town Council on July 7, when Mr. T. Norton contended that the committee had disobeyed the direct instructions and intention of the Act. It was contrary to public policy to increase the facilities for the sale of poisons in Grantham, where they could be obtained from a dozen qualified vendors. He warned the Council of the risk they ran of having the matter reported to the Home Secretary, and their action in all probability vitiated.—Mr. W. Plumb pointed out that the chemists of the town themselves manufactured the poisonous compounds referred to.—It was finally decided to adjourn the matter for consideration by the Council in committee.

GRANTOWN-ON-SPEY.—Two applications from ironmongers have been granted unanimously. The local chemists opposed the applications on the ground that they had supplied the specified poisons for many years past.

KING'S LYNN.—R. & A. Taylor, seedsmen, 142 Norfolk Street, and G. W. Scott & Sons, Surrey Street, South Lynn, and Golden Ball Nurseries.

LINLITHGOW.—Mr. Dymock (Dymock Bros., seedsmen and ironmongers), 57 High Street.

LIVERPOOL.—The City Council on July 7 confirmed by fifty-nine votes to thirteen the Health Committee's recommendation in favour of issuing licences to applicants.—Mr. Herman, in vigorously opposing the committee's recommendation, alleged that there had been "manœuvring" in order to obtain licences.—Mr. Max Muspratt said that a big responsibility rested upon the Health Committee to see that licensees complied with the stringent regulations.—Alderman Taggart said the chemists were "doing all the poisoning," and the issuing of licences would add to the public security.—The Chairman of the committee assured the Council that there was no intention to issue the licences indiscriminately.

LONDON.—W. Cutbush & Son, Highgate Nurseries, Highgate, N.

MONTROSE.—David Lackie, ironmonger, 39 High Street.

PORTSMOUTH.—John George Bryson, 8 Commercial Road, and Saml. Maurice Clegg, 159 Commercial Road, seed-merchants. The Town Council confirmed the Finance and Parliamentary Committee's recommendation to grant the applications by nineteen votes to twelve. Solicitors on behalf of the Portsmouth Pharmacists' Association and the Messrs. Timothy White Co., Ltd., appeared before the committee in opposition to the applications.

STOCKTON-ON-TEES.—Wm. Strike, Ltd., florists and seedsmen, 62 High Street, and John Fewster, nurseryman, Wellington Street. The local chemists opposed the applications.

SUSSEX.—Alf. Pain, ironmonger, High Street, Arundel, and Station Approach, Pulborough.

SWANSEA.—The Property and General Purposes Committee had an application from Messrs. A. Kitely & Co., florists, 37 Oxford Street, before them on July 14. The local chemists wrote objecting to the application. The Town Clerk (Mr. John Thomas) said it was a question how far the Act was ever intended to apply to places like Swansea. The point had been raised in Parliament, and it was then said that the Act applied to scattered agricultural districts.—Councillor Hemmings thought a great injustice was being inflicted upon the Swansea chemists by issuing licences to florists.—The Mayor said the point was whether the Corporation, having already granted one application, could withhold a similar request from another firm.—The Town Clerk said the circumstances here were different, as in the former case Messrs. Parsons' application was unopposed, but an objection was lodged to the second one, which must receive consideration.—The Hon. Odo Vivian's suggestion that the application of Messrs. Kitely be granted, but that it be made co-terminous with that of Messrs. Parsons' licence, so that the matter could be reviewed without prejudice in the future, was agreed to.

WEST HARTLEPOOL.—F. Wm. Appleyard, ironmonger, 2 Lynn Street, and C. E. Strike, florist, Church Street.

WIMBLEDON.—J. H. Bentley, nurseryman, 8 Merton Road.

WHITEHAVEN.—The Borough Council have granted an agricultural licence to James G. Steele, and a horticultural one to John Wilson.

#### Applications Refused.

BURY ST. EDMUNDS. The Town Council had three applications before them on July 12.—Mr. H. Morgan Veitch, legal adviser to the Horticultural Trade Association, appeared for the applicants. He said nurserymen, who had seriously studied the use of remedies for plant-diseases chiefly from a practical point of view, had been hampered by the Pharmaceutical Society's prosecutions, and when an opportunity arose, had sought an Act to enable them to sell horticultural poisons. He contended that one of the reasonable requirements of the public was that they should also get competent advice from the nurserymen. He used the portion of the Act stating that the local authority in towns with a population of over 10,000 should be the Town Council as an argument that the Act intended that licences should be issued in towns. In conclusion, he said that 175 large Corporations and Councils had adopted this construction of the Act, whereas only five or six comparatively small authorities have taken the opposite view.—Mr. Cross, nurseryman, was called to show that he had made special study of horticulturists' particular requirements. His evidence amounted to the fact that specific plants required special treatment, and that the local nurserymen would be unfairly penalised in comparison with other places if they were not licensed.—Mr. H. Banks Ashton, solicitor on behalf of the chemists, cross-examined the last witness to show that there was a chemist in business within twenty yards of his establishment, and others at each end of the thoroughfare; but on questioning him regarding his knowledge of the posology of arsenic Councillor Allingham and Mr. Veitch thought the questions irrelevant. Mr. Ashton submitted that if there was a town in East Anglia peculiarly well supplied with chemists it was Bury St. Edmunds. He also pointed out that up to the end of May only one-fourth of the 600 applications had been conceded.—On putting the question to the vote the applications were refused by twelve votes to six.

DERBY.—The Sanitary Committee's decision to refuse the application of Mr. J. M. Stewart, seedsmen, Tenant Street, came before a special meeting of the Town Council on July 8.—Councillor A. R. Flint, on behalf of the Gardeners' Association, moved that the recommendation be referred back to the committee because he thought the committee had acted illegally in refusing the application. He said the Act was passed "for the express purpose of legalising a system which had been winked at for a long time." A discussion ensued as to the powers of the Sanitary Committee, as also its suitability to consider the matter.—Councillor Millington, who found several supporters, said the farmers wished to purchase their poisons where they got their seeds.—Dr. Laurie said the matter was one of the public safety, and only qualified persons should sell poisons. He also mentioned that the applicants had been fined twice for the illegal sale of insecticides. It did not follow that because other towns were doing wrong in issuing licences that Derby should do the same. If people were compelled to go to a chemist for these particular preparations it would impress upon them the serious nature of the article. If licences were issued to everyone who sold seeds it would be difficult to know where to draw the line.—The amendment was lost by twenty-five votes to twenty-two.

#### Fees Fixed.

FAVERSHAM.—Licence 10s. 6d.; renewal 1s. 6d.

GLOUCESTERSHIRE.—Licence 10s. 6d.; renewal 1s. 6d.; inspection of register 1s.

#### Interesting Items.

The "Sussex Daily News" of July 8, in reporting the consideration of applications by the Tunbridge Wells Town Council, is consistent throughout in referring to licences "for the sale of drugs" instead of agri-horticultural poisons.

The Portsmouth pharmacists are indignant at the local Town Council ignoring their overwhelming evidence that the public demand for poisons is already met. A local chemist writes stating that the "keenness and energy shown by some of the members of the local Pharmacists' Association, notably the Hon. Secretary (Mr. Barlow), are not likely to be daunted by this temporary check."

Mr. Philip O'Hagan, solicitor, Derry, has written to the Privy Council on behalf of his client Mr. Michael McGlinchey, a general dealer at Buncrana, co. Donegal, who also holds a licence for the sale of intoxicating liquors, and is accordingly disqualified from holding a poison-licence by No. 3 of the Irish Provisional Rules. Mr. O'Hagan writes that Mr. McGlinchey is the largest trader in Buncrana, and has, in addition to his shop, a small public-house, "which is nothing but a bar." The latter establishment is separated by a considerable distance from his principal business-place, at which no liquor is sold. It is submitted that the rule is not intended to apply in such a case. Mr. O'Hagan says he has tried to argue the matter with the County Council but that is "no good," and he accordingly

asks that the Privy Council's Secretary intimate to the County Council to issue the necessary licence to Mr. McGlinchey. The reply received from the Privy Council is as follows:

Dublin Castle, July 3, 1909.

Sir,—I am directed by the Lords Justices to acknowledge the receipt of your letter of the 30th ultimo relative to the refusal of the Donegal County Council to grant to your client, Mr. Michael McGlinchey, a licence for the sale of sheep dips, etc., pursuant to the provisions of the Pharmacy Act, 1908, and of the Order in Council made thereunder. Their Excellencies desire me to state that they cannot advise you with respect to the point at issue between you and the County Council, but that the representations contained in your letter have been noted for consideration in connection with the revised Order in Council which, it is expected, will be issued in the course of a few weeks. I am, sir, your obedient servant,

J. B. DOUGHERTY.

Mr. J. F. O'Donnell, of Buncrana, has brought the correspondence to the notice of the Chemists and Druggists' Society of Ireland, and the Secretary has instructed Mr. O'Donnell to write to the County Council stating that he already supplics the wants of the district as regards agri-horticultural poisons.

## Summer Outings.

### Brighton Wayzgoose.

THE staff of Messrs. Ford, Shapland & Co., label and general printers, 6 Great Turnstile, High Holborn, London, W.C., had their annual outing on July 10. This year Brighton was visited and a very enjoyable day spent. An excellent dinner was served at the Seven Stars Hotel, the chair being taken by Mr. H. M. Heywood, with Mr. G. H. Filmer as vice-chairman. In replying to the toast of the "The Firm" the Chairman reported a successful year and urged upon those present the necessity of continuing to turn out the very best work.

### A Ramble.

THE West Ham and District Association of Pharmacists is great on rambles. The first one of the season was on Thursday, July 8, with Mr. H. Soper (President) as guide. By train from Plaistow at 2.44 P.M., they went to East Horndon, whence at 3.30 the party of eighteen (including some ladies) walked to Herongate by field-paths and Thorndon Park—a charming place, famous for its herds of deer. At Herongate they had tea. The return walk was through another part of the Park, past Thorndon Hall, the historic residence of succeeding generations of the barony of Petre, which dates from 1603, the present Lord Petre being fifteenth baron, and the owner of 19,100 acres, through the home farm to Childerford, thence by road and fields to East Horndon. The weather was fine and sunny.

### Still Growing—and Running.

ON Saturday, July 10, the principals and employés of Messrs. Arthur H. Cox & Co., Ltd., Brighton, had their seventieth annual outing. They formed two parties—one, of about 250 men, went by brakies, charabancs, and cabs to the delightful spot of Scaynes Hill, situated about three miles from Hayward's Heath, while the female employés, numbering about seventy, went to Tunbridge Wells, where they visited the Pantiles, the Toad and High Rocks, etc., and drove to Eridge. The Scaynes Hill party in the meantime played a cricket match and went through the following programme of sports: One hundred yards race, two hundred and twenty yards race, mile race, egg-and-spoon race, throwing the cricket-ball, sack-race, kicking the football, three-legged race, putting the shot, and some others. Mr. E. Cox acted as starter and Mr. A. H. Cox as judge. The men imparted great vigour into their pleasure, and a thoroughly enjoyable day was terminated at 11 P.M., when they returned to their homes.

### "Cherry Blossom" at Margate.

THE employés of Messrs. J. Gosnell & Co., Ltd., 101 Southwark Street, London, S.E., invaded Margate on July 7, on the occasion of their annual dinner and outing. On arrival the party enjoyed the pleasures of Margate as well as wind and weather would permit, and met at the Queen's and High Cliffe Hotel for dinner at 1.30. After dinner Mr. C. P. Gosnell, managing director, proposed the loyal toast. This was followed by the toast,

"Success to J. Gosnell & Co., Ltd.," proposed by Mr. A. Tebbitt. He referred to the fact that "Cherry Blossom" had that day reached a quarter of a century's existence, the first sale being made at the stall at the Health Exhibition in 1884. The company were subsequently reminded by Mr. Vorley, the secretary, that another celebration is impending—viz., the 150th anniversary of the founding of the firm. The final toast, "The Travellers," was proposed by Mr. R. P. Gosnell, and Messrs. Jones and Schrader responded. The party then journeyed in brakies to Grove Ferry Hotel, where tea was provided. The return journey from Margate was by special train, London Bridge being reached by 10.50.

### A Trip to Liverpool.

ON July 8, amid glorious weather, a number of pharmacists hailing from Sheffield, Nottingham, Leeds, Bradford, Hanley, and Sutton-in-Ashfield, visited the warehouses and laboratories of Messrs. Evans Sons Lescher & Webb, Ltd., Liverpool, under the guidance of the senior representative, Mr. W. C. Brinson, of Chesterfield. On arrival at 10.40 A.M. the party were taken over the offices and warehouses at 56 Hanover Street, after which an adjournment was made to the Reform Club, where luncheon was served, the chair being taken by Mr. J. J. Evans (chairman of the company), who welcomed the visitors. In the afternoon the party were shown over the laboratories, drug mills, and lime-juice stores in Fleet Street by Mr. J. Herbert Evans (director) and Mr. Tallantyre (export manager). From thence a trip was made to the docks to inspect the *Campania*, and the party proceeded to New Brighton by boat, where dinner was served at 6.30 at the Hotel Victoria, the chair being taken by Mr. W. P. Evans (a senior director), Mr. J. Shacklady (secretary of the company) occupying the vice-chair. Mr. Evans referred to the great pleasure it gave him to see so many pharmacists present from different parts of the country. Mr. Shacklady, Mr. Brinson, Mr. Cornwall (Hanley), and others also spoke, and the proceedings terminated about 10 o'clock, the party leaving Liverpool at 11.30 P.M., having spent a memorable and enjoyable day.



The diplomas of the Franco-British Exhibition held at Shepherd's Bush last year have been issued this week, and the above is a reduced facsimile of the one for the Grand Prix.

**GERMAN POTASH SYNDICATE.**—At a general meeting of potash firms, held at Berlin on July 8, it was decided to postpone the decision as to the continuance of the syndicate until the latter part of July.

**CARBON TETRACHLORIDE AS A DRY SHAMPOO.**—Miss H. C. Horn-Elphinstone Dalrymple died on Monday in a hair-dressing room at Harrod's Stores while getting a dry shampoo with carbon tetrachloride. In the course of the evidence at the Coronor's inquest on Thursday it was stated that 90 to 100 customers get this shampoo every day. It was stated that the deceased had cardiac muscular degeneration. The jury returned a verdict of accidental death, accelerated by the fumes of the tetrachloride. They added a rider that Harrod's were "not justified in employing unskilled operators in performing this dangerous operation."

**Birth.**

**ECCLES.**—At The Square, Athy, co. Kildare, on July 11, the wife of R. I. Eccles, pharmaceutical chemist, of a daughter.

**Marriages.**

**CAMPBELL-DIXON.**—At the Wesleyan Church, Bingley, on July 12, by the Rev. R. Dixon, assisted by the Revs. J. Smith and T. A. Bailey, Arthur George Campbell, chemist and druggist, Danothy Hall, Thirsk, to Hilda May, eldest daughter of the Rev. R. Dixon, late of Bathurst, Gambia.

**MONTGOMERY-SAMMON.**—At the Church of the Holy Family, Aughrim Street, Dublin, on June 30, by the Rev. C. O'Carroll, assisted by the Rev. John Daly, Thomas J. Montgomery, pharmaceutical chemist, manager of Messrs. Leonard's Medical Hall, 76 Dame Street, Dublin, to Helena May, only daughter of Mr. James Sammon, Prince Patrick Terrace, North Circular Road, Phibsborough.

**Deaths.**

**BROWN.**—At 7 Market Square, Buckingham, on July 7, from an overdose of laudanum, Mr. Thos. Land Brown, chemist and druggist, aged fifty-three.

**FURNESS.**—At Bleak House, Hope, on July 11, Mr. Joseph Machin Furness, J.P., chemist and druggist, aged fifty-four. Mr. Furness was a native of Sheffield, and after his apprenticeship there he studied at the School of Pharmacy, London, in the 1878 session, taking certificates in chemistry and pharmacy, and botany and *materia medica*. He passed the Minor examination in July 1878, and returning to Sheffield started business on his own account as a chemist, druggist, and drysalter at 137 Fitzwilliam Street. He took a keen interest in local pharmaceutical affairs in the 'eighties as a member of the Sheffield Pharmaceutical and Chemical Society, of which he was President in 1887, and he held other offices. He was a hard worker for the society, especially for the school which it had founded, but a few years later he ceased to take an active part in pharmaceutical affairs, and turned his attention to municipal matters and politics. He was elected to the city council as member for St. Philip's Ward in 1890, and sat continuously for that ward until 1901, when he was defeated, a circumstance due in part to his independent nature and aggressive methods, both of which had been experienced when he was a member of the Pharmaceutical and Chemical Society. For a number of years in the 'eighties Mr. Furness was the Sheffield correspondent to **THE CHEMIST AND DRUGGIST**. He had a well-developed sense for news, and had fair literary ability, which was exhibited in a volume which he published in 1893 on "Fifty Years' Municipal Records," the occasion being the jubilee of the incorporation of Sheffield. Mr. Furness married in 1900, and two years later was appointed a justice of the peace. He retired from public life about 1905, and went to live at Hope, but continued to carry on his Sheffield business until recently. He had been in failing health for some time, suffering from heart trouble, and had been unable to leave his home since Christmas. The funeral was at Wardsend Cemetery on Tuesday, July 13, when Mr. G. T. W. Newsholme and Mr. George Squire represented the Sheffield Pharmaceutical and Chemical Society.

MR. J. M. FURNESS, J.P.

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**HIGGINS.** On July 8 Mr. James Higgins, wholesale druggist and drysalter, 90 Railway Street, Leigh, aged fifty-nine.

**LEAVY.**—At Castle-Blayney, on July 1, Mr. James Leavy, registered druggist.

**MOORE.**—At Clacton-on-Sea on July 8, the wife of Clifford Moore, pharmacist, Finchley, London, N., aged forty-two.

**POTTAGE.**—At 3 Lee Crescent, Portobello, N.B., on July 12, Mr. John Cooper Pottage, chemist and druggist, formerly of 115 Princes Street, Edinburgh, aged seventy-five. Mr. Pottage was a well-known homœopathic chemist, and was a Yorkshireman by birth, being the son of a medical man. He served his apprenticeship in London, and part of his early years in pharmacy was spent in Scarborough. In 1861 Mr. Pottage started business on his own account as a homœopathic chemist at 115 Princes Street, Edinburgh, where he fitted up one of the finest pharmacies in Scotland, and established a connection which at one time included a good wholesale department. He was



MR. J. C. POTTAGE.

an adept at the art of window display, and had a high opinion of the value of his windows for advertising goods. Some twenty years ago he always had one window filled with Pear's soap, especially the balls; at another time he showed sulphur eggs (sulphur moulded into ovoid form), 40,000 of which were sold at 1s. each; and so on with other things, the window displays all being intended to sell the goods. The homœopathic dispensing in the pharmacy attracted assistants from England, among the most recent being the brothers Rowland, Mr. G. H. S. Rowland having been a partner with him until a little more than a year ago. Since the Messrs. Rowland left Princes Street Mr. Pottage had assumed another partner, and the business has been carried on as John C. Pottage & Co. For some time he carried on as well a business in Glasgow, which was taken over by Mr. T. Robinson. Owing to indifferent health Mr. Pottage recently retired. He was one of the founders of the British Homœopathic Pharmaceutical Association, and for several years was its President. Mr. Edwin Pottage, a son by his first marriage, is a pharmacist.

**RITCHIE.**—At Longmore Hospital, Edinburgh, on July 12, Mr. John Ritchie, chemist and druggist, late of Gorgie Road, aged sixty-nine. Mr. Ritchie had been in ill-health for some time, suffering from a complication of troubles, and prior to his going to the Longmore Hospital for Incurables, about two months since, he had been for more than a year an inmate of Chalmers Hospital. Mr. Ritchie served his apprenticeship in Kirkcudbright, and went to Edinburgh about 1862. For a short period he was assistant to Mr. Finlayson, Leith, and then he was with Messrs. J. F. Macfarlan & Co. for about ten years. He started in business in Morrison Street, and at the end of eighteen or twenty years he disposed of that business, and ultimately opened a pharmacy in Gorgie Road, where he continued to carry on business till two years ago, when ill-health compelled him to retire. Mr. Ritchie was unmarried. His brother, Mr. Thomas Ritchie, is on Messrs. Macfarlan's staff.

**SWENDEN.**—At Darlington, on July 4, Mr. James Swenden, pharmaceutical chemist, aged seventy-one. Mr. Swenden was in business for many years at 14 High Row, Darlington, where he served his apprenticeship. Mr. J. E. Hodgson, who succeeded him fifteen years ago, is the present proprietor. The deceased gentleman was a prominent Churchman and a magistrate for the borough.

AN OPPORTUNITY for a chemist starting in business or in search of bargains in stock-bottles, etc., is detailed in the Coloured Supplement.

## B.P. Tests for Lead.

**A Critical Examination of the Quantitative Lead-test recommended by the Committee of Reference in Pharmacy to the British Pharmacopœia Committee.**

By T. F. Harvey, Ph.C., F.C.S., and J. M. Wilkie, B.Sc., A.I.C.

A CURSORY perusal of the Reference Committee's pronouncements on the colorimetric estimation of lead shows the existence of much debatable matter. In most cases inconveniently large quantities of substance are used, the natural limitations imposed by solubility not being taken into consideration. This is objectionable, as one must either work with hot solutions or permit a certain amount of crystallisation to occur. Pure metallic lead forms a better standard than the nitrate, and in preparing the strong lead solution it is highly necessary to cool before finally adjusting to volume. As alkaline hydrogen peroxide under certain conditions oxidises lead sulphide to the sulphate in the cold, the potassium-cyanide solution should be tested to ensure that it exercises no apparent solvent action on lead sulphide. The committee has also failed to direct that solutions should be cooled to laboratory temperature before adding the sodium sulphide, otherwise consistent results cannot be obtained. We cannot recommend the viewing of the tests at an angle inclined to the observer. It is much better to stand them on a good white surface (white paper answers well) and view them from above. The word "dummy" seems undignified for inclusion in the British Pharmacopœia—"comparison" is a much better word.

When we come to perform an actual determination serious errors come to light. Filtration of the aqueous solution may lead to considerable loss of insoluble lead, existing as sulphate or the metal, and in the presence of a minute trace of ferric iron the method as it stands is absolutely unworkable. Its adoption by the committee is the more incomprehensible if the following remarks of Hill are borne in mind (*C. & D.*, 1905, I, 388) :

... iron is usually found. . . . The presence of a considerable trace of iron does, however, cause the solution, after treatment with cyanide, to assume a yellow tint, and this tint, I find, does not disappear on warming, as has been stated by other writers. The possible effect of iron on the test may easily be seen by taking two Nessler glasses, each containing 0.00005 gram of lead in 50 c.c. of water, and adding to one of them 0.00005 gram of iron; on adding sulphide to each, after treatment with ammonia and cyanide in the usual way, it is seen that the colour of the solution which contains only lead is much darker than that of the one which also contains iron, the yellow having masked to some extent the grey of the lead sulphide.

Let us consider all that is implied by these statements of Hill. Iron usually occurs in the substances tested and  $\frac{1}{20}$  mg. is sufficient to make the determination worthless; if 12 grams is taken for the test this demands a limit for iron of four parts per million. As one of us has shown, in a paper communicated to the Society of Chemical Industry (Wilkie, *C. & D.*, July 3, 1909, p. 20), the yellow tint which Hill speaks of is due to ferric hydroxide which may be removed by filtration, previous to the addition of the alkali sulphide. Had he taken this precaution he would have discovered that in filtering out iron he was also filtering out lead, the ferric hydroxide having completely carried down the lead. Hill also states (*loc. cit.*) :

If this experiment [ $\frac{1}{20}$  mg. lead and  $\frac{1}{20}$  mg. iron] be repeated, using instead of plain water a solution of ammonium chloride, the same effect is observed, but to a less extent, while with ammonium tartrate it is scarcely noticeable.

This reference to ammonium tartrate should have put Hill on his guard, for Teed ("Analyst," 1892, 142) recommended the addition of tartaric acid prior to neutralising with ammonia, and adding potassium cyanide, the tartaric acid being added to prevent precipitation of iron by the ammonia. Thus Hill shows that in the presence of a minute trace of iron Teed's method works fairly satisfactorily, while his own process breaks down. As one of us has shown, these difficulties may be got over in quite a simple manner. The iron must be in the ferrous condition, the salt solution must be acidified, and the potas-

sium cyanide added directly to it, ammonia being added subsequently. The general directions should then read as follows :

**MODE OF TESTING (GENERAL).**—Two solutions of the substance under examination are made in water—(1) The primary solution, containing 5 grams of the substance; (2) the comparison solution, containing 2.5 grams of the substance and 5 c.c. of the dilute lead solution. The volume of each solution should be about 40 c.c. Four drops of acetic acid (33-per-cent.) are added and then 1 c.c. of the potassium-cyanide solution. After well mixing excess of .880 ammonia is added. The volume of each is adjusted to 50 c.c. at laboratory temperature, and two to three drops of sodium-sulphide solution are added. Under these conditions the coloration developed in the primary solution should not be darker than that of the comparison solution, thus ensuring that the lead present does not exceed twenty parts per million.

**NOTES.**—In a few cases 7.5 grams is used in the primary solution, the comparison solution as usual containing 2.5 grams and 5 c.c. of the dilute lead solution. This limit of ten parts per million is not to be literally interpreted: its function is to ensure that one keeps well within the limit of twenty parts per million suggested for citric and tartaric acids and cream of tartar by Dr. MacFadden, of the Local Government Board.

Should any insoluble matter be present, the solutions should be boiled if necessary with more acetic acid, correspondingly more ammonia being subsequently used—*cf.* potassium sulphate.

The primary and secondary solutions prior to the addition of sodium sulphide must be colourless; if this is not the case special treatment must be given (*cf. infra*); in addition they must in all cases be cooled to laboratory temperature.

From what has just been said the committee's recommendation to add burnt sugar if the colours of the two solutions differ much must be viewed with suspicion. On theoretical grounds alone any addition of foreign colouring substance is to be strongly deprecated. Hill, who suggested the plan, says (*loc. cit.*) :

... iron is usually found. . . . The solution of the substance when prepared and made ready for the addition of the sulphide is by no means colourless, but is usually yellow or yellowish brown. . . . The presence of a considerable trace of iron does, however, cause the solution after treatment with cyanide to assume a yellow tint. . . . The logical conclusion is that when the substance contains heavy trace of iron the presence of this should be considered even after treatment with potassium cyanide. This being done, however, there may still remain the inherent colour of the solution (which indeed may occur in the total absence of iron).

Hill then draws a distinction between the colour-effect due to iron and the inherent colour of the solution. He recommends burnt sugar for the second case, but merely advises one to take the more common iron effect into consideration, but does not say how this is to be done. The committee goes a step further by not distinguishing the two cases and saying that burnt sugar is to be added if the two solutions differ much in colour. Now if we tested, as the committee direct, a sample of potassium nitrate containing eight parts of ferric iron and four parts of lead per million, we should have to go through the farce of adding burnt sugar to compensate for the colour difference due to the additional ferric hydroxide in the primary solution, followed by sodium sulphide to precipitate lead, though no lead exists in solution (*cf. Wilkie, loc. cit.*). In every case that has so far come under our notice ferric iron is the sole cause of the trouble, provided the test is carried out in a rational manner; but no trouble is to be feared if a colourless solution is obtained on addition of cyanide to the acidified solution followed by ammonia. If a colour is developed it may be due to ferrous iron in amount exceeding a certain quantity, and will disappear on addition of more ammonia and gently boiling; if it does not disappear the following treatment should be adopted :

After solution in water, four drops of hydrochloric acid, s.g. 1.16, is added, then 1 c.c. of a saturated aqueous solution of sodium sulphite ( $\text{Na}_2\text{SO}_3 \cdot 7\text{H}_2\text{O}$ ), and the solution heated gently until the colour due to ferric iron suddenly bleaches. To the colourless solution is added a mixture of 1 c.c. 10-percent. potassium-cyanide solution and 2 c.c. .880 ammonia. The whole is again heated and gently boiled, if necessary, until quite colourless; then it is cooled, adjusted to 50 c.c., and treated with sulphide in the usual manner.

The following substances call for special comment. In all cases it is to be understood that the primary solution alone is dealt with, and that wherever reagents are added to effect solution, reduction, etc., corresponding additions to the comparison solution are implied.

*Acid, Boric.*—Five grams is dissolved in about 35 c.c. of water, containing four drops of 1.16 hydrochloric acid, with the aid of heat, 1 c.c. cyanide added, and then ammonia. Direct solution in ammonia may involve serious loss of lead.

*Acid, Citric and Tartaric.*—7.5 grams is used in both cases. It is to be noted that in the event of ferric iron being present, sodium thiosulphate must be used instead of sodium sulphite to effect reduction. The mode of using is simple. To the aqueous solution (volume about 35 c.c.) is added a few drops of decinormal thio, the whole heated to incipient boiling, and the flame removed. Reduction rapidly occurs on cooling, and when the solution is water white potassium cyanide is added, and then excess of ammonia. In the case of tartaric acid, the use of considerable excess of ammonia must be avoided.

*Acid, Hydrobromic, Hydrochloric, Phosphoric and Sulfuric.*—Five grams of each to be used. In the event of ferric iron being present, thiosulphate is the most convenient reducer. The reduced solution must in all cases be thoroughly cooled before adding the cyanide.

*Acid, Nitric.*—Use 5 grams. Ferric iron cannot be reduced in the presence of free nitric acid. To get over this difficulty add 5 c.c. of 33 per-cent. acetic acid, 5 c.c. .880 ammonia, 1 c.c. sodium sulphite, and proceed as usual.

*Ammonium Carbonate.*—Use 5 grams. It should be dissolved in excess of acetic acid and boiled to expel carbon dioxide, so as to ensure solution of insoluble lead.

*Potassium Sulphate.*—Five grams should be boiled with 5 c.c. of 33 per-cent. acetic acid and 35 c.c. of water, and a mixture of 1 c.c. potassium cyanide (10 per cent.) and 5 c.c. .880 ammonia added. This is to ensure solution of lead sulphate, of which considerable amounts commonly occur in this salt.

*Potassium Tartrate Acid.*—Use 7.5 grams. If the solution obtained by direct treatment with ammonia is coloured, it is necessary to dissolve the salt in a slight excess of hydrochloric acid and reduce with thiosulphate.

*Lithium Carbonate* (5 grams), *Potassium Carbonate* (5 grams), *Sodium Bicarbonate* (7.5 grams), and *Sodium Carbonate* (5 grams).—These should be treated in the same manner as ammonium carbonate.

*Calcium and Magnesium Salts.*—The method prescribed for calcium hydroxide and carbonate is clumsy owing to the difficulty of effecting solution by heating with excess of acetic acid. The difficulty is accentuated with chemically pure salts; of course solution can be effected, but it demands prolonged digestion with excess of acid.

*Note.*—Hill (*loc. cit.*) does not give the matter any attention, but considers the analogous magnesium compounds at some length, recommending solution in hydrochloric acid, ammonium chloride being added to prevent precipitation on the subsequent addition of ammonia and potassium cyanide, which it does much more efficiently than ammonium acetate. The committee discard this in favour of the acetic-acid method, for probably the following reasons—the hydrochloric-acid solution is highly coloured owing to the presence of iron, and ammonium chloride does not ordinarily occur lead-free. The difficulties can be overcome by the use of thiosulphate to reduce ferric iron, preparation of lead-free ammonium chloride by Wilkie's method (*cf. loc. cit.*), and addition of cyanide under rational conditions.

The lead-free ammonium chloride is prepared by dissolving 250 grams of the ordinary salt in about 750 c.c. of hot water, adding a few c.c. of 1.16 hydrochloric acid to ensure marked acidity and then 2 to 3 c.c. of strong ferrie-chloride solution; the whole is heated to boiling, the flame removed, and distinct excess of strong ammonia then added. When cold the filtered solution is made up to a volume of 1,000 c.c. Fifty c.c. of the solution thus prepared should, when tested for lead, give a negative result. This strength (25 per cent. w/v) is very convenient in use.

*Calcium Hydroxide.*—Use 5 grams; add 15 c.c. lead-free NH<sub>4</sub>Cl solution, and very slight excess of 1.16 hydrochloric acid (14 c.c.). Dissolve by aid of heat and boil to expel carbon dioxide. Add about 0.5 c.c. of N/10 thio, and when colourless add a mixture of 1 c.c. potassium cyanide, 1 c.c. .880 ammonia, 10 c.c. lead-free ammonium-chloride solution, and water 8 c.c. Ensure alkalinity; heat gently until colourless; cool, filter, adjust volume to 50 c.c., etc.

*Calcium Carbonate.*—Use 5 grams; add 10 c.c. lead-free NH<sub>4</sub>Cl solution and very slight excess of 1.16 HCl (9.5 c.c.), dissolve by aid of heat and boil to expel carbon dioxide, add about four drops N/10 thio, and when colourless add a mixture of 1 c.c. potassium cyanide (10 per cent.), 1 c.c. .880 ammonia, 5 c.c. lead-free NH<sub>4</sub>Cl solution and water 15 c.c. Ensure alkalinity; heat gently until colourless; cool; filter if necessary; adjust volume to 50 c.c., etc.

*Calcium Chloride.*—Use 5 grams; add 10 c.c. lead-free NH<sub>4</sub>Cl solution, 35 c.c. water, 0.5 c.c. cone. hydrochloric acid, 1-2 drops N/10 thiosulphate, heat to incipient boiling; when colourless, cool and add, slowly rotating the while, 1 c.c. potassium cyanide, followed by about 0.5 c.c. .880 ammonia, and again heat gently until colourless if necessary.

*Calcium Hypophosphate.*—Use 5 grams; proceed exactly as for the chloride, but no thiosulphate need be added as a rule.

*Magnesium Oxide (Light and Heavy).*—Use 5 grams; add 15 c.c. lead-free ammonium-chloride solution and very slight excess of 1.16 hydrochloric acid (25 c.c.); boil to expel CO<sub>2</sub>,

remove flame, add about four drops N/10 thio, and when colourless add a mixture of potassium-cyanide solution 1 c.c., lead-free ammonium-chloride solution 5 c.c., .880 ammonia 1 c.c., and water 3 c.c. Heat gently until colourless; filter if necessary, etc.

*Magnesium Carbonate (Light and Heavy).*—Use 5 grams; proceed exactly as for the oxide, but use less hydrochloric acid (11 c.c.).

*Magnesium Sulphate.*—Use 5 grams; dissolve in 30 c.c. water, add 5 c.c. lead-free ammonium-chloride solution, four drops 1.16 hydrochloric acid, 1 c.c. potassium cyanide, and a few drops of .880 ammonia; adjust volume to 50 c.c., etc.

*Liq. Magnesium Carbonate.*—Take 40 c.c.; add lead-free ammonium-chloride solution 5 c.c., and slight excess of 1.16 hydrochloric acid (2 c.c.). Ensure acidity; boil off CO<sub>2</sub>, cool, and add 10 per-cent. cyanide 1 c.c., .959 ammonia, drop by drop; adjust volume to 50 c.c., etc. The comparison solution is prepared similarly, using 15 c.c. and adding the same amount of ammonium chloride and hydrochloric acid.

*Note.*—The omission of magnesium carbonate by the committee is curious in view of the inclusion of the solution (liq. magnes. carb.) for which a limit of one part in two millions is prescribed. The method is so clumsy and time-consuming—more than 200 c.c. of water requiring to be evaporated—that it becomes of interest to consider the reasons leading to its selection. Hill (*loc. cit.*) stated that under certain conditions the use of lead-free standards could be dispensed with. His own words are:

"The colour given by a definite quantity of lead sulphide in a solution of any given salt is sensibly the same for different concentrations of the salt, provided that the concentration varies between certain limits (2 to 24 per cent.). The like holds good for all salts, both of organic and inorganic acids, which have been tried."

This appears to explain to some extent the excessive volumes taken, 100 c.c. being equivalent to 2 grams of the B.P. carbonate. In this connection two series of tests were prepared containing varying quantities of lead-free ammonium chloride but identical in other respects, the same amount of lead being added to each. It was found that with quantities of ammonium chloride varying from 0.5 to 10 grams the proportionality method no longer seemed to hold when the ratio of the ammonium chloride present in two tests exceeded three. This would seem to justify the use of smaller volumes of liq. magnes. carb., provided, as stated by Hill, all inorganic salts behave similarly.

It has, then, been shown that the details of the committee's test are exceedingly faulty—with inorganic salts containing the minutest traces of soluble iron salts the whole of the lead may be lost, and so a false feeling of security is developed. The tests for the insoluble calcium compounds are unworkable, and those for the magnesium salts not much better. The recommendation to add a foreign colouring substance (caramel) to quantitative colorimetric tests is indefensible for the reason stated. It is curious to think that in the lead-test of the committee the sole rôle of the potassium cyanide is as a sensitiser—added after the addition of ammonia in excess it has no covering action even on ferrous iron. Its action as a sensitiser is most marked. If two tests are prepared, each containing 0.05 mg. lead and excess of ammonia, and to one is added 1 c.c. of 10 per-cent. potassium cyanide, the difference is striking; not only is the cyanide-containing test much the deeper tint, it is also a better colour for matching. Finally, we strongly protest against the adoption of unduly severe standards; in some cases it would appear that the toxicity of lead is considered to be of the same order as that of arsenic. For the majority of substances a limit of 20 parts per million might well be adopted as a counsel of perfection. It is to be borne in mind that Dr. MacFadden, of the Local Government Board, after considerable inquiry, endorsed the trade limit of 20 parts per million for cream of tartar and extended it to citric and tartaric acids in view of the quantities in which these substances "are consumed in foods, drinks, medicines, etc."

"Did you ever make a serious mistake in a prescription?" asked a man of a chemist's assistant. "Never but once, and that was when I charged a customer a shilling instead of one-and-six."

*ITALIAN ALUM.*—The exports from Civitavecchia during 1908 amounted to 3,260 tons, against 5,500 tons in 1907 and 4,400 tons in 1906. France and Germany absorbed the shipments last year, taking respectively 2,060 tons and 1,200 tons. Formerly the whole output of the alum mines, which averaged 5,000 tons per annum, was exported to France, and refined there by the same company which works the mines at Allumiere, a village about ten miles from Civitavecchia. At present the output has been somewhat increased, and while it continues to be exported to France also, and to a smaller extent to Germany, the increased production is disposed of in Italy. The supply of the mineral is practically unlimited.

## Trade Report.

**NOTICE TO BUYERS.**—The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of drugs and oils vary greatly, and higher prices are commanded by selected qualities even in bulk quantities. It would be unreasonable for retail buyers to expect to get small quantities at anything like the prices here quoted.

### 42 Cannon Street, London, E.C., July 15

BUSINESS in drugs and chemicals has shown an improving tendency this week, and fluctuations in prices are fairly numerous, with several of an important character. Citric acid and cream of tartar are in more inquiry, and tartaric acid is offered at lower prices for next year. Acetic acid is likely to improve later. The German Bromine Convention has been renewed for five years, this giving a feeling of more confidence to the bromide salts, and a new convention has been formed between the English and foreign (German, Swiss, and American) makers of strychnine and salts, with a consequent advance of  $1\frac{1}{2}d.$  to  $2d.$  per oz. Chemically pure glycerin was officially advanced  $5l.$  per ton on Wednesday, as foreshadowed last week. Japanese refined camphor is firmer for distant shipment, but China crude is easier. New Belgian chamomiles are likely to be dearer this year, crop reports being unfavourable. Codeine and salts are  $5d.$  cheaper. Copper sulphate is a trifle easier. Persian galls are quiet and nominal. Guinea grains are scarce. Milk-sugar is plentiful and cheap. Bergamot, lemon and orange oils are all firmer at primary sources. Castor oil is dearer, and technical qualities of olive oil have also advanced. Opium is steady on spot, but lower offers come from Turkey. Quillaia is steady, and tragacanth has been dealt in to a moderate extent at easier rates for certain qualities. Ergot is firm, and the market is now bare of valerian root. The principal changes have been as under :

Higher	Firmer	Easier	Lower
Benzoin (Sumatra)	Bergamot oil	Aloes (Cape)	Codeine & salts
Castor oil	Camphor (Jap. ref.)	Ammonia sulphate	Tartaric acid (forward)
Coca leaves (Ceylon)	Coconut-oil	Camphor (China cr.)	
Glycerin	Palm oil	Canary seed	
Olive oil (technical)	Orange oil	Guinea grains	
Strychnine & salts		Honey (Jam.)	
		Milk-sugar	
		Rhubarb	
		Sarsaparilla (Lima)	
		Shellac	
		Tragacanth	

### London Markets.

**ACID, ACETIC.**—It is anticipated in well-informed quarters that an improvement in prices must take place towards the end of the year. At the moment there are a few second-hand parcels offering at cheap rates, and this prevents the long-anticipated advance.

**ACID, CITRIC.**—The demand has slightly improved, but values are easy, English offering at  $1s. 4\frac{1}{2}d.$  and foreign at  $1s. 3\frac{1}{2}d.$  to  $1s. 4d.$  per lb.

**ACID, TARTARIC.**—Is in fair inquiry, English offering at  $10\frac{1}{2}d.$  and foreign at  $9\frac{3}{4}d.$  to  $10d.$  on the spot. For delivery over 1910, foreign is being offered at extremely low figures.

**AGAR-AGAR** has been selling freely, and nothing is now to be had under  $1s. 10d.$  per lb. for No. 1 Kobe strip.

**ANISEED.**—There is no change in quotations at  $20s.$  per cwt. for Russian and nominally  $40s.$  for Spanish.

**ARROWROOT.**—At auction 100 barrels manufacturing St. Vincent were bought in at  $2d.$  per lb.

**BROMIDES.**—The German Bromine Convention was renewed on Friday last for a further period of five years. It appears that one or two "outsiders" who have given a little trouble in the past have now been brought into the fold, and the consequence is that the Convention has been reorganised. This renewal should give greater stability to the market for bromide salts, and will encourage buyers to operate more freely, as there is no prospect of a change in prices, that for English potassium being  $10\frac{3}{4}d.$  per lb. in 1-cwt. or 10-cwt. lots,  $1s. 1d.$  net for sodium, and  $1s. 2d.$  net for ammonium in  $\frac{1}{2}$ -cwt. or 1-cwt. lots. Foreign potassium bromide is  $10\frac{1}{2}d.$  in ton lots in cases.

**CAMPHOR (CRUDE).**—China is rather lower, the sales including 100 piculs at  $132s. 6d.$  c.i.f. for July-September shipment.

**CAMPHOR (REFINED).**—Japanese is firmer for distant shipment, with sales of  $2\frac{1}{2}$ -lb. slabs at  $1s. 6\frac{3}{4}d.$  for October-December, and  $\frac{1}{2}$ -oz. and  $\frac{1}{4}$ -oz. at  $1s. 7\frac{1}{2}d.$  c.i.f. for October-November shipment. At the drug auction three cases  $\frac{1}{2}$ -oz. tablets sold at  $1s. 9d.$  per lb.; 1 oz. were held for  $1s. 7d.$  and  $\frac{1}{2}$  oz. for  $1s. 9d.$

**CANARY-SEED**, after being a quiet market for the past fortnight, was more active on Wednesday, and a fair quantity changed hands at  $50s.$  to  $51s. 6d.$  per quarter for Turkish and good Morocco, being slightly below recent highest prices.

**CARAWAY-SEED** has been in better demand at  $33s.$  to  $34s.$  per cwt. for fair to good Dutch on the spot.

**CASCARA SAGRADA** has been in rather better demand, with business at  $37s. 6d.$  c.i.f. for sailer (August-September) shipment; on the spot from  $42s. 6d.$  to  $45s.$  is quoted. In the drug auction 400 bags were bought in at  $42s.$  to  $45s.$ ; 10 bags sea-damaged realised  $30s.$

**CHAMOMILES.**—Reports from Belgium indicate that much higher prices will rule for this year's crop, and should the weather prove unfavourable at time of picking it is anticipated that extreme figures will be reached. Spot prices have advanced about  $2s.$  per cwt., last season's flowers offering at from  $38s.$  to  $42s.$  There are no indications yet as to prices for new.

**CHILLIES.**—At auction 14 bags fair Java sold at  $30s.$  and good at  $38s.$ , also 19 bags fair Mombasa at  $37s. 6d.$  Good to fine red Nyasaland were bought in at from  $48s.$  to  $55s.$

**CLOVES.**—At auction 177 bales Zanzibar were bought in at  $4\frac{3}{4}d.$  to  $5d.$  for fair to good Zanzibar, and 30 bags Amboyna at  $7\frac{1}{2}d.$  for ordinary. Privately the market is quiet, with sales of August-October delivery at  $4\frac{5}{8}d.$  and October-December at  $4\frac{3}{4}d.$ , closing sellers. On the spot small sales have been made of fair at from  $4\frac{5}{8}d.$  to  $4\frac{3}{4}d.$  per lb.

**CODEINE.**—The makers intimate a reduction of  $5d.$  per oz., and now quote the pure crystals and precipitate at  $10s.$  per oz., hydrochloride and sulphate at  $9s. 2d.$ , and phosphate at  $8s. 4d.$ , all net; 70 oz. contracts for delivery over six months are subject to a reduction of  $3d.$  per oz., with falling clause on undelivered balance.

**COPAIBA.**—Ten barrels from Maranham have arrived in Liverpool. Maracaibo (B.P.) is selling in five-case lots at  $1s. 11d.$  per lb., and the value of Maranham in Liverpool is  $2s. 1d.$

**COPPER SULPHATE.**—Liverpool is  $2s. 6d.$  per cwt. easier at  $18s. 10s.$  per ton for prompt.

**CORIANDER-SEED** is still slow of sale at  $9s.$  per cwt. for wormy and at  $10s.$  for sound Morocco.

**CUBEBS.**—Seventeen bags have arrived from Bombay per Occana.

**EUPHORBIUM.**—Eight serons have arrived from Saffi.

**FENUGREEK-SEED** is scarce on the spot, and a small lot of East India sold at  $9s.$  per cwt., but new crop Morocco is expected shortly. A parcel of twenty-six bags fair clean Morocco sold at  $9s.$  per cwt. in the drug auction.

**GALLS.**—Persian blue are in retail demand, and prices are nominal at from  $56s.$  to  $57s. 6d.$ , green at  $50s.$  to  $52s. 6d.$ , and white at  $40s.$  to  $41s.$  per cwt.

**CAMPIER.**—Small sales of No. 1 cubes have been made at 37s. 6d. spot.

**GINGER.**—Steady. At auction 50 cases small and medium cut Cochin were sold at 55s. Washed rough Cochin was bought in at 42s., and brown rough Calicut at 40s. to 41s.

**GLYCERIN.**—The refiners on Wednesday announced an official advance of 5*l.* per ton, which now makes the price of double-distilled in 5-ton lots 80*l.* per ton naked and 84*l.* in tins in cases. This advance was quite anticipated, and in second-hands business had been done prior to the announcement at 77*l.* Dealers find great difficulty in obtaining supplies, and there is now practically nothing offering under the official rates.

**GUINEA GRAINS.**—The spot market continues bare, and in Liverpool a few bags offer at a high figure; from Hamburg 72*s.* c.i.f. is quoted.

**GUM ARABIC.**—With small stocks of Bushire so-called insoluble gum, holders are very firm, pale picked amber offering at 20*s.* to 25*s.*, Mohameral at 18*s.* to 22*s.* 6*d.*, and partly blocky Bushire sorts at 15*s.* to 18*s.* 6*d.* per cwt.

**LINSEED** is steady at 50*s.* to 52*s.* 6*d.* per quarter for good clean quality.

**MILK-SUGAR.**—It is reported that Continental makers have practically sold their production for this year, and that prices would have advanced ere this were it not that there are offers of American milk-sugar. Finest white B.P. powder is quoted 40*s.* to 40*s.* 6*d.* net in London.

**OIL, ALMOND.** is very firm owing to the high prices asked for almonds. Sweet B.P. oil is quoted 1*s.* 10*d.* per lb.

**OIL, BERGAMOT.** is unaltered, with a small business at primary sources on the basis of 16*s.* 6*d.* c.i.f. terms.

**OIL, CASTOR.**—Dearer. Hull make is quoted at 27*l.* 10*s.* per ton for first pressing for prompt to December delivery, and Belgian firsts is quoted 28*l.* for prompt, both ex-wharf London. Finest Italian water-white is offered at 38*l.* in tins and cases, ex-store London, and French in cases is 33*s.* to 34*s.*, also ex-store. In Liverpool the market is also firmer, good seconds Calcutta selling at 3*1*/<sub>2</sub>*d.* per lb. and Belgian firsts at 3*d.* per lb.

**OIL, CITRONELLA.**—Ceylon is quiet at 1*s.* 0*d.* per lb. in drums and 1*s.* 1*d.* in tins on the spot; to arrive sellers ask 11*1*/<sub>2</sub>*d.* c.i.f., being firmer.

**OIL, COCONUT.** has further advanced, Ceylon on the spot being quoted 34*s.* and Cochin 36*s.* per cwt

**OIL, COD-LIVER.**—Our Bergen correspondent writes on July 12 that the market is unaltered. Finest non-congealing Lofoten oil has not advanced above 63*s.* per barrel c.i.f. terms, and the attempts to fix a higher price have not succeeded as yet. The exports from Bergen up to date amount to 6,737 barrels, against 9,178 barrels at the same date of 1908. London agents report a quiet market at 63*s.* per barrel c.i.f. Consumers do not appear to have covered their requirements ahead this year, so that towards September an improved demand may be expected. In the drug auction 14 casks of Newfoundland were sold prior to the auction.

**OIL, OLIVE.**—Prices of technical qualities have advanced practically 5*l.* per tun, and existing stocks, it is anticipated, will be exhausted before the end of the season.

**OIL, LEMON.**—An advice from Palermo of July 9 states that the market is firm with a favourable tendency. Local buyers from Reggio have been in the market, and blank contracts made previous to the disaster are being attended to; for shipment 3*s.* 3*d.* c.i.f. is quoted, and on the spot 3*s.* 4*1*/<sub>2</sub>*d.* to 3*s.* 9*d.*

**OIL, TURPENTINE.** after advancing to 35*s.* 3*d.*, closed easier at 34*s.* 6*d.*, or practically the same price as last week.

**OPUM** is quiet on the spot, but owing to the extremely small stocks here prices of Turkey are steady, the value of good druggists' being from 12*s.* 3*d.* to 12*s.* 6*d.* per lb. and from 12*s.* 6*d.* to 14*s.* 6*d.* for soft shipping descriptions. From Turkey offers come at lower prices, but buyers for the most part prefer to look on, purchasing only for current requirements. On the other hand cables have been received from Constantinople again reporting purchases (quantity not stated) at an advance of 5*d.* on previous prices. Persian has been sold at steady prices on the spot.

A Smyrna correspondent, writing on July 3, states that the only sale consists of three cases old extra Karahissar t.i.q. at 109 pts., 32.75*f.*, or 11*s.* 9*d.* per lb. c.i.f. for an English buyer. Prices show a falling tendency, which cannot but fail to be accentuated by the persistent dullness and the accumulation of stock. Among the new opinion just arrived are a number of cases of fine paste for smoking purposes, which qualities have been exceedingly rare during the past two crops. The arrivals in Smyrna amount to 154 cases, against 123 cases last year. The latest estimate of the Turkish crop is as follows: Konia about 1,800 baskets, Karahissar 1,750, Adin Vilayet 550, about 1,800 baskets, Karahissar 1,750, Adin Vilayet 550, Baloukissar districts 400, Salomica 800, Constantinople (soft) 900, druggists' ditto 800, making a total of 7,000 baskets. It must be borne in mind that only 50 per cent. of above crop has been collected, and should we have abnormally hot weather with southerly winds prevailing during the next ten or fifteen days the above yield will naturally diminish. Since July 3 the weather has been very hot, and sultry southerly winds blowing all over the country. Further estimates will continue to be compiled during the course of this month. Writing on July 9, a Smyrna correspondent states that the sales amount to only three cases new Karahissar at 11*s.* per lb. f.o.b. Holders continue to maintain a firm attitude, and notwithstanding the lack of demand, none have come forward to offer concessions. Arrivals are fewer in comparison to those of last year at same date, for up till now only 256 baskets have arrived, against 276 last year.

**PEPPER (BLACK).**—At auction 97 bags fine Tellicherry sold at 3*1*/<sub>2</sub>*d.* to 3*1*/<sub>2</sub>*d.*. Greyish Singapore was bought in at 3*1*/<sub>2</sub>*d.* to 3*1*/<sub>2</sub>*d.*. Privately market is firm, the sales including 50 tons to New York at 3*1*/<sub>2</sub>*d.* for July-September shipment.

**PEPPER (WHITE).**—At auction 21 bags good fair Singapore were bought in at 5*1*/<sub>2</sub>*d.* Privately fair on the spot is offered at 5*1*/<sub>2</sub>*d.* For arrival the sales include June-August shipment at 4*1*/<sub>2</sub>*d.* c.i.f., August-October and September-November at 4*1*/<sub>2</sub>*d.* c.i.f.

**QUILLIA** is steady at 34*l.* per ton on the spot.

**QUININE.**—The demand is quiet retail with small sales of the usual brands of German sulphate from second hands at 7*d.* per oz. and Java at 6*1*/<sub>2</sub>*d.* At auction on July 6 the Amsterdam Quinine Works offered and sold 1,417*1*/<sub>2</sub> kilos. Ed. II. at an average price of 10.51*fl.* per kilo. against 10.50*fl.* per kilo. at the previous auction. The next sale will take place on Friday, July 23, when 50,000 oz. net B.P. sulphate will be offered.

**SHELLAC** is quiet and a trifle easier on the spot, TN orange selling on a basis of 68*s.* for fair free, up to 70*s.* being quoted for fine. AC Garnet is offered at 65*s.* to 67*s.* 6*d.* and G.A.L. 62*s.* 6*d.* spot.

**STRYCHNINE.**—The British, Continental, and American makers have concluded a convention, in consequence of which they have advanced prices about 1*1*/<sub>2</sub>*d.* to 2*d.* per oz. For a long period prices of strychnine have been unremunerative, and now that they are on a more satisfactory basis values are likely to be stable for some time to come. The price of pure crystals is now 1*s.* 6*1*/<sub>2</sub>*d.* per oz in 100-oz. lots, and 1*s.* 6*d.* in 500 oz. lots. Precipitated is  $\frac{1}{2}$ *d.* less, and the salts 1*d.* per oz. less. Contracts are quoted at proportionately lower prices, with no falling clause.

**TRAGACANTH.**—A fair amount of business has been done in most qualities at a shade easier prices, at mostly for gum under 6*d.* per cwt. The selection on offer still remains poor, although stocks are moderate. Bagdad firsts are quoted 15*s.* 5*d.* to 16*s.*; seconds, 14*s.* to 14*s.* 15*s.*; thirds, 11*s.* to 13*s.*; and fourths, 8*s.* 10*s.* to 10*s.*

**TURMERIC.**—The sales privately include 10 tons Bengal at 18*s.* spot, and several hundred bags middling Cochin slightly bulbous finger at 15*s.* 6*d.* Madras is slow of sale at from 17*s.* to 19*s.*

**VALERIAN ROOT.**—The stocks have now been cleared off the market, the new crop being due in September.

**WAX, JAPAN.** is quiet at 46*s.* 6*d.* spot for good squares, and for arrival 46*s.* 6*d.* c.i.f. is quoted.

#### London Drug-auctions.

Moderate supplies of first and second hand drugs were offered at auction, of which a fair proportion sold at prices mostly in buyers' favour. Cape aloes was about 1*s.* easier. Annatto-seed sold steadily. Suntiaria benzoin improved about 5*s.* to 7*s.* 6*d.* per cwt. Buchu is steady, and no material change occurred in cardamoms. Fine dragon's-blood is slow.

Jamaica honey only partly sold at irregular but steady rates, and the prices paid for Matto Grosso ipocaetuanha were barely up to those asked privately. Menthol was about 6d. lower at auction. Rhubarb is pressed for sale. Lima-Jamaica sarsaparilla was 1d. easier, but nativo Jamaica brought full rates. Alexandrian senna sold cheaply, and the new Tinnevelly may be expected at the next auction. Beeswax was flat, the tendency being easier. The following table shows the quantity of goods offered and sold:

	Offered Sold		Offered Sold
Aconite .....	22 ... 0	Menthol .....	25 ... 25
Aloes—		Myrrh .....	34 ... 0
Cape .....	70 ... 49	Oil—	
Curaeao (bx.)...	29 ... 5	aniseed .....	9 ... 0
Socotrine (kegs) ..	19 ... 0	bay .....	2 ... 0
Zanzibar (cs) ...	14 ... 0	camphor .....	22 ... 0
Ambergris (pkgs.) ..	6 ... 0	cassia .....	5 ... 0
Aniseed .....	40 ... 0	cinnamon .....	15 ... 0
Anatto-seed .....	103 ... 20	citronella .....	1 ... 0
Antimony .....	30 ... 0	cod-liver (Newf.)	14 ... *14
Araroba .....	8 ... 0	eucalyptus .....	25 ... 0
Areca .....	7 ... 0	gurjun .....	28 ... 0
Asafetida .....	15 ... 4	lemongrass (Java)	1 ... 1
Balsam (Peru) .....	9 ... 0	lime .....	10 ... 0
Benzoin—		orange .....	2 ... 0
Palembang .....	14 ... 0	peppermint .....	15 ... 0
Siam .....	1 ... 1	sassafraſs .....	3 ... 0
Sumatra .....	190 ... 92	Olibanum .....	4 ... 0
Buchu .....	15 ... 15	Orchella weed .....	21 ... 0
Calumba .....	20 ... 20	Orange-peel .....	12 ... 12
Camphor (Ch. cr.) ..	14 ... 0	Quillia .....	40 ... 0
(Jap.ref.) .....	85 ... 6	Quince seed .....	8 ... 8
Canella alba .....	9 ... 0	Papain .....	5 ... 0
Cannabis indica .....	11 ... 4	Patchouli leaves .....	22 ... 0
Cantharides .....	15 ... 0	Rhubarb (China) .....	89 ... 37
Cardamoms .....	224 ... 139	Sandalwood .....	5 ... 0
Cascara sagrada .....	410 ... 10	Sarsaparilla—	
Cascarilla .....	53 ... 1	Honduras .....	5 ... 0
Coca-leaves .....	12 ... 9	Lima-Jamaica .....	30 ... 18
Cochineal .....	5 ... 3	Native Jam. ....	12 ... 10
Colocynth & pulp .....	17 ... 5	Scopolia (Jap.) .....	5 ... 5
Cuscus .....	13 ... 0	Seedlac .....	106 ... 0
Cuttlefish bone .....	123 ... 15	Senna and pods—	
Dill seed .....	24 ... 0	Alex. ....	100 ... 61
Dragon's-blood .....	21 ... 1	Timmerville .....	18 ... 12
Elemi .....	13 ... 0	Soya-bean oil .....	4 ... 0
Ergot (Russ.) .....	21 ... 0	Soy .....	1 ... 0
Fenugreek seed .....	26 ... 26	Sticklac .....	72 ... 0
Gamboge .....	21 ... 0	Stramonium .....	20 ... 20
Gelatin .....	4 ... 4	Tamarinds .....	105 ... 1
Gentian .....	20 ... 0	Tonka beans .....	3 ... 0
Ground nuts .....	4 ... 0	Tragacanth .....	1 ... 1
, kernels .....	2 ... 0	Turmeric .....	380 ... 0
Gun arabic .....	2 ... 0	Wax (bees)—	
Honey—		African .....	9 ... 5
Hayti .....	6 ... 0	Australian .....	1 ... 0
Honolulu .....	40 ... 0	Cape .....	6 ... 0
Jamaica .....	351 ... 185	Chilian .....	15 ... 0
St. Lucia .....	50 ... 50	Cuban .....	13 ... 0
Insect-flowers .....	3 ... 0	East African .....	70 ... 47
Ipecacuanha—		East Indian .....	30 ... 0
Cartagena .....	23 ... 2	Jamaica .....	32 ... 0
Matto Grosso .....	15 ... 6	Madagascar .....	77 ... 6
Minas .....	5 ... 5	Mombasa .....	10 ... 0
Jalap .....	5 ... 0	Morocco .....	54 ... 0
Kanala .....	5 ... 0	Spanish .....	9 ... 0
Kola .....	8 ... 1	Zanzibar .....	56 ... 0
Lime-juice .....	14 ... 0	Wax (veg.)—	
Manna .....	2 ... 0	China .....	50 ... 0
Mastich .....	2 ... 0	Japan .....	45 ... 0

\* Sold privately.

ALOES.—Cape was about 6d. per cwt. easier, the bulk of 53 cases Mossel Bay (usual 20-per-cent. tares) selling at 31s. to 32s. for good bright hard, 30s. for fair slightly coarse, 29s. to 30s. for fair seconds, and 28s. 6d. to 29s. for dull and partly cindery. Twelve cases Algoa Bay (estimated tares) sold at from 26s. 6d. to 28s. 6d. for fair to good bright hard. Another broker offered 17 cases Mossel Bay, of which 4 sold at 28s. 6d. to 30s. for dull softish to fair bright, slightly soft; 35s. was wanted in this instance for fine bright hard. Five boxes fair livery Curaeao sold at 47s. 6d. per cwt. subject. Socotrine in kegs was held at 90s., at which private sales have been made.

ANNATTO-SEED.—Firm. Ten bags fine bright Ceylon sold at 3½d. per lb. subject, and 3½d. was also accepted for similar quality from Madras.

ARECA.—For 7 bags of good clean Ceylon a good bid of 17s. was refused, being firmer. The lot was bought in at 20s.

ASAFETIDA.—Two boxes of dark-brown stony block sold at 37s., and 2 cases liquid paste at 5s. per cwt. without reserve.

BALSAM, PERU.—For 3 cases of fair of direct import from Acajutla 7s. 5d. per lb. was wanted.

BENZOIN.—Dearer. A string of 85 cases Sumatra seconds sold at from 5l. 2s. 6d. to 5l. 7s. 6d. (the bulk at the higher price) for fair seconds, with small to medium almonds, part false packed sides, and for similar quality slightly better packed and bolder almonds from 5l. 12s. 6d. to 5l. 17s. 6d. was paid (one lot 5l. 10s.). These prices mark an advance of 5s. to 7s. 6d. per cwt. Good almond seconds were held for 7l. 10s. A single case of Siam containing various qualities sold at 5l. 7s. 6d. subject. Seven cases of fair almond seconds sold at 6l. 15s. to 7l.

BUCHU was steady, only 4 bales of small round greenish being offered, for which 1s. 4d. to 1s. 5d. was paid. Four bales of yellowish ovals sold at 6½d., good green ditto at 7d. per lb., and for 4 bales of good "longs" from 6½d. to 7½d. was paid. A single bale of spurious scented sold without reserve at 2d. per lb.

CALUMBA.—Twenty bags of fair small to bold corky washed sold at 20s. without reserve.

CANNABIS INDICA.—Fair pressed East African rolls were retired at 5d., and for four cases greenish 4½d. was paid. No Bombay tops were offered.

CARDAMOMS sold at materially unchanged rates, except for Calicut, which were easier. Ceylon-Mysore, extra bold fine pale realised 3s. 1d.; good bold pale, 2s. to 2s. 3d.; bold and medium pale, 1s. 9d. to 1s. 10d.; small and medium pale, 1s. 6d.; small pale, 1s. 4d.; bold pale splits, 1s. 9d.; bold snelly splits, 1s. 7d. to 1s. 8d.; small and medium split, 1s. 4d. to 1s. 6d.; ordinary brown and split, 1s. 3d. Indian from Calicut, good bold pale bought in; medium and bold pale sold 2s. to 2s. 1d.; small and medium pale, 1s. 9d.; small pale, 1s. 4d. Mangalore, bold round pale, 3s.; medium round pale, 2s.; tiny round pale, 1s. 5d.; small and medium long pale, 1s. 7d. to 1s. 8d.; small specky, 1s. 6d. to 1s. 7d. Good to dark Bombay seed, 1s. 8d. to 1s. 10d. per lb.

CASCARILLA.—Good bold part silvery quill is held for 70s. per cwt.; a single bale of small broken brown stringy quill sold at 60s., and siftings were bought in at 52s. 6d.

COCA-LEAVES.—Three bales fair greenish Truxillo were bought in at 9d., a bid of 7½d. being refused. Ceylon-Huanuco were dearer, 4 bales fair green realising 10½d., and 5 bales ordinary brown 7d. per lb.

COLOCYNTH.—Five cases small to bold palish partly-broken apple (catalogued as Turkish) sold at 8½d., and six cases peeled Spanish were bought in at 6d. Privately a small business has been done in pulp at from 7½d. to 8½d. per lb. for ordinary.

CUTTLEFISH BONE.—Ten bales fair bold unsorted palish Bombay sold at 4d. per lb., and a further seven packages of bold palish Bombay bone sold at 5d. per lb.

DRAGON'S BLOOD.—At auction 8 cases of good reed were held at 10l. 10s. per cwt. A single case of fair bright lump sold at 6l. 15s. per cwt. subject. The Pera has brought 20 cases from Penang, and the Iyo Maru three packages from Singapore.

ERGOT.—It is difficult to get offers from Spain, and from Hamburg 1s. 5d. c.i.f. London is quoted, being firm. Thirteen bags of small sound Russian in auction were held for 1s. 5d. per lb., no allowances.

HONEY.—Jamaica sold at rather irregular to about 1s. per cwt. easier rates, only part being disposed of. Fair amber liquid in barrels sold at 26s.; ordinary darkish liquid 24s. to 25s., good pale to white set 29s. to 31s. 6d., fair palish to pale set 25s. 6d. to 26s. 6d., yellow setting and set 24s. to 26s. per cwt., fair brown set and setting 24s. 6d. to 25s. 6d. Forty cases of Honolulu were limited at from 30s. to 32s. 6d. per cwt. for yellowish setting to palish set. Fifty cases from St. Lucia were sold at 26s. 6d. per cwt. for bright amber liquid.

IPECACUANHA.—It is said that 6s. has been privately paid

for Matto Grosso, and this price was asked in auction, but there were no buyers at the figure. Four bales dull to fair lean sold at 5s. 7d. to 5s. 8d., and for five bales cultivated Minas 5s. 5d. was accepted. Two bales Cartagena sold at 4s. 2d. subject for dull, and two bales woody Matto Grosso pickings realised 5s. 3d. without reserve.

JALAP.—A lot of 5 bags analysing 9.35 per cent. of resin was retired at 2s., a bid of 1s. 10d. being refused. Privately there appears to be little offering.

MENTHOL.—The interest this week has centred in the sales of 25 cases "without reserve," 20 cases of which (Kobayashi) were from Hamburg, and 5 cases (Suzuki) from New York. The idea is current that these lots were sent over in order to "bear" the London market, as their owners, mostly in Hamburg, have certain sales in blank to cover, and they are said to be caught "short." The first 10 cases Kobayashi sold at 8s. 4d. to 8s. 6d., and the remaining 10 at 8s. 3d. to 8s. 4d.; the 5 cases Suzuki sold at 8s. 3d. to 8s. 4d. for good dry white crystals. Prior to the auction few sales had occurred, second hands offering Kobayashi at 9s. c.i.f., and Suzuki at 8s. 10½d. c.i.f., but the first-hand price of Kobayashi remains at 9s. 6d. c.i.f., and oil 6s. 3d. c.i.f. A few cases could probably be had in one quarter at 8s. 6d. on the spot, but 9s. is generally asked for Kobayashi.

The exports of menthol from Japan during March 1909 amounted to 6,102 kin, valued at 26,911 yen, and in April 5,032 kin were exported, valued at 22,150 yen. The exports during the four months ending April 1909 now amount to 24,070 kin, valued at 108,842 yen, against 23,281 kin, valued at 110,837 yen, in 1908, and 18,973 kin, valued at 105,344 yen, in 1907 (kin=1.3 lb. and yen 2s.).

MYRRH.—A single case of hand-picked was held for 6s. per cwt. For common dark blocky sorts a bid of 35s. is to be submitted, 40s. being wanted, and for fair partly blocky Bombay sorts the price is 60s.

OIL, GURJUN.—Twenty drums from Singapore were bought in at 4½d. per lb.

OIL, LEMONGRASS.—A single case of Java (75 per cent. citrol) sold at 2d. per oz.

OIL, PEPPERMINT.—At auction 20 cases of Japanese dementhrolised were held at 5s. 3d. per lb. Privately American is offered at 6s. 2d. to 6s. 3d. spot.

ORANGE-PEEL.—Twelve bales of dull coarse ringlets sold without reserve at 1d. per lb.

ORCHELLA WEED.—For 21 bales from Madagascar a bid of 9s. 6d. per cwt. is to be submitted.

PAPAIN.—At auction 5 cases of pale Singapore powder were retired at 7s. per lb.

QUINCE SEED.—Eight bags of fair Cape sold at 1s. 11d. per lb., being 1d. easier.

RHUBARB.—A fair quantity changed hands at slightly easier prices. Twenty cases sold without reserve, comprising bold round Shensi (high-dried character) with ½ palish pinky fracture at 1s. 5d., medium round ditto similar fracture 1s. 5d., and small sound and druggists' trimming root 1s. 5d. Bold flat, little spongy 1s. 4d., and medium ditto 1s. 4d. Other sales of protected parcels included two cases small and medium flat High-dried with ¾ good pinky fracture at 1s. 1d. subject, and three cases small round horny High-dried, with ¾ very fair colour, 5½d. per lb. Ten cases medium round horny High-dried, with ¾ good pinky fracture, ¼ very dark, sold at 6d. per lb.

SARSPARILLA.—A penny easier for Lima-Jamaica, 30 bales of which offered, and 18 sold at 1s. for slightly rough and part dark to fair, and 11d. for sea-damaged. Six bales Native Jamaica sold at firm rates, 1s. 1d. being paid for good red, and 11d. for dull red and yellow mixed. A further 5 bales were offered, of which two sold at 1s. for fair red, and 10d. for damaged. No grey Jamaica offered.

SCOPOLIA JAPONICA.—Five bales from Japan sold without reserve at 5s. per cwt.

SENNA.—Of Alexandrian 39 packages sold at 3d. for good green half-leaf and 2½d. for siftings. Two bales pale pods sold at 5½d. subject. A further 22 bags of Alexandrian were sold at 2½d. per lb. for good clean broken leaf and 2d. for siftings. Twelve bales of Tinnevelly sold without reserve at 2d. for common yellowish and 4d. for fair greenish.

STRAMONIUM LEAVES.—A parcel of thirty-five bales good green Hungarian sold without reserve at 30s. per cwt.

TAMARINDS.—A single cask of fair pale St. Lucia sold at 14s. per cwt.

WAX, BEES'.—Neglected. Thirty packages Jamaica were retired at 8s. 5d. irrespective of quality, no bids being made. Five cases Australian sold at from 8s. to 8s. 6d. for fair grey and yellow mixed, and 47 blocks East African realised 6s. 12s. 6d. for part fair, part dark, and drossy. Six bags fair yellow and brown Madagascar realised 6s. 15s., and worn yellow 6s. 12s. 6d.

### Heavy Chemicals.

A fairly steady business continues to be transacted in the heavy-chemical market on both home and export account, and there is little of change which calls for special report or attention. Prices rule on the steady side at unchanged rates. In the Glasgow centre matters are likely to be on the quiet side up to the end of the month, owing to annual fair holidays.

STPHATE OF AMMONIA is a trifle on the easier side, but prompt parcels move off fairly well. Forward business, however, continues extremely slack, owing to the higher figures asked for deferred delivery. Present nearest figures are: Beckton prompt, 11s. 7s. 6d.; Beckton terms, 10s. 18s. 9d. to 11s.; London, 11s.; Leith, 11s. 5s. to 11s. 6s. 3d.; Liverpool, 11s. 2s. 6d.; and Hull, 11s.

ALKALI-PRODUCE.—Bleaching-powder is in good average request, both against contract account and as regards new business, with prices on the basis of 4s. 5s. to 4s. 7s. 6d. per ton for softwood casks on rails. Caustic soda is in improved demand on home and export account, and more especially so for high strength. 7s to 77 per cent., 11s. to 11s. 2s. 6d.; 70 per cent., 10s. 5s. to 10s. 7s. 6d.; and 60 per cent., 9s. 5s. to 9s. 7s. 6d. Ammonia alkali keeps moving well, and maintains a steady tone at 4s. 10s. to 4s. 15s. per ton in bags free on rails. Soda-crystals are in heavier consumptive request at 5s. to 5s. 6d. per ton free on rails Tyne, 5s. 6d. to 6s. 6d. per ton f.o.b. Tyne, and 6s. to 6s. per ton f.o.b. Liverpool. Saltcake is moving rather better, but is still on the quiet side, with value at about 40s. to 42s. 6d. in bulk. Bicarbonate of soda, 5s. to 5s. 5s. in casks, and 5s. 10s. to 6s. per ton in 1-cwt. kegs f.o.b. Liverpool. Chlorates of potash and soda continue on the quiet side at 3s. 6d. to 3s. 6d. per lb., according to quantity, etc. Yellow prussiates of soda and potash are in fairly good demand at 3s. to 3s. 6d. and 4s. 6d. to 5s. per lb. respectively. Hyposulphite of soda is somewhat dull, and scarcely in average demand. Ordinary crystals in casks, 5s. to 5s. 10s. per ton. Deliveries in 1-cwt. kegs vary from 5s. 15s. to 7s. 15s. per ton, in accordance with quality and quantity. Silicates of soda, steady, and moving fairly well: 140° Tw., 4s. 5s. to 4s. 15s.; 100° Tw. 3s. 15s. to 4s. 5s.; and 75° Tw. 3s. 7s. 6d. to 3s. 17s. 6d. per ton, according to quantity, quality, and destination.

### Cablegrams.

NEW YORK, July 15:—Business in drugs is moderate. Opium is neglected at last week's reduction to \$4.15 per lb. for druggists. Jalap is firm at 45c. : serpentine is also firm at 50c. Copalba is easy at 45c. for Central and South American. Balsam Pern is lower at \$1.60; cascara sagrada is nominal at 8c., and new crop is offered at cheaper rates. Peppermint-oil is steady at \$1.45 in tins, and spearmint oil has been reduced to \$2.15. Podophyllum root (mandrake) is firm at 8c. per lb.

AMSTERDAM, July 15:—At the auction of cinchona held here to-day, 6,805 packages were offered, of which 6,074 packages sold at an average unit of 3.15c. per half kilo., against 3.10c. paid at the auction on June 10. The following were the approximate quantities of quinine purchased by the principal buyers:—(1) The English and American factories 9,296 kilos; (2) the Brunswick factory 2,915 kilos; (3) the Mannheim factory 5,620 kilos; (4) Amsterdam factory 897 kilos; (5) the Frankfurt and Stuttgart factories 2,789 kilos; (6) the Maarssen factory 3,541 kilos; (7) various buyers 6,297 kilos. The lowest price paid for manufacturing bark was 9½c. and the highest 32c., while for druggists' bark from 7c. to 43c. was paid. The coca leaves sold at from 25½c. to 55½c.

AMERICAN TURPENTINE AND RESIN.—Louisiana, by increasing its output of turpentine from 1,134,110 gals. in 1907 to 1,696,250 gals. last year and its resin production from 126,346 barrels in 1907 to 193,804 barrels in 1908, shows a marked advance in her naval stores industry. The increase in production was mainly due to very favourable weather and labour conditions.



**TO CORRESPONDENTS.**—A letter for publication should always be a distinct communication; nothing else should be mixed up with it. Each query—no matter whether legal, dispensing, or general—should stand by itself, and the paper upon which it is written should always be backed with the shop stamp. We do not undertake to reply to queries by post. Write clearly and concisely on one side of the paper only. All communications should be accompanied by the names and addresses of the writers. Publication of letters does not imply our agreement with them. Letters received after Wednesday morning cannot as a rule be dealt with in the current week's issue.

**BUSINESS INFORMATION**—We supply by post (when a stamped and addressed envelope is provided) information as to the makers or agents for articles connected with pharmacy and the chemical and drug trades. Inquiries regarding any articles which cannot be traced are inserted under "Information Wanted."

Deputation to Mr. Birrell.

SIR,—Mr. Birrell is a lawyer. Would he permit a body of traders to act as lawyers if they registered themselves as a limited company and employed an attorney to act for them? The remedy is easy. Let the limited companies stir themselves and become qualified by examination. Why should the pharmaceutical chemists give away their rights that they have worked for and earned? Why was Sir Thomas Robinson speaking for the deputation? He had no grievance. The Pharmaceutical Society will accept all apprentices from any limited company whose directors will qualify themselves by examination. In these days of competitive examination the limited companies should work themselves up to the standard of the Pharmaceutical Society. Why should we lower ourselves to their level and give way our rights to them? Our Society is not a trade union like the Law Society. We did not seek the position we hold. We were called into existence by Act of Parliament, and we have complied with its conditions, and we will stand or fall by these.

Yours faithfully,

Cork, July 12. RICHARD BLAIR, M.C.Ph.S.I.

Pharmacy Acts and By-laws.

SIR,—There are some points in the relation of the by-laws of the Pharmaceutical Society of Great Britain to the Charter and Acts of Parliament which require some clearing up. The Acts say nothing about the President and Vice-President being put on the Boards of Examiners, but by the by-laws these gentlemen are members of both Boards. By the Act the Scottish Board is to consist of persons domiciled in Scotland, and yet by the by-laws an English President resident in London is a member of it. The by-laws distinctly state that a member of Council is not eligible as an examiner. The obvious inference is that the President and Vice-President are only members by courtesy, and are not intended to act as examiners. Yet it is well known that President and Vice-President have acted as examiners in London. Further, the 1868 Act says: "No person shall conduct any examination for the purposes of this Act until his appointment has been approved by the Privy Council." That statement quite clearly includes special or assistant examiners. Yet I have excellent authority for saying that temporary or assistant examiners have examined candidates without the authorisation of the Privy Council. When the next revision of by-laws takes place Section X. should be carefully looked into and suitably amended. It would be more legal, and better in every way, that the President and Vice-President should not be members of the Boards. These officers should have access to the examination-rooms to represent the Council, and to discuss matters with the Boards when desirable; but each Board should elect its own Chairman, to preside at the ordinary sessions, and to exercise a general superintendence over the examination arrangements.

Yours etc.,

EDINENSIS. (104/9.)

Parliamentary Representation for Pharmacists.

SIR,—I desire to call the attention of your readers to the movement which is designed to secure some measure of Parliamentary representation for pharmacists, and to give particulars of the work already undertaken, and to indicate in what particular directions assistance will be most welcome. The objects which the Pharmacists' Parliamentary Committee have in view have already been set forth in THE CHEMIST AND DRUGGIST, and I take it there are few pharmacists who have given much thought to the matter at the present day who would fail to see that a considerable amount of good would result from the presence in Parliament of one or more of our own craft acting as our direct representatives. It cannot be doubted that the presence in the House of Commons of Dr. Macnamara and his colleagues has been of the utmost value to the teaching profession. The influence of a direct representative is of a twofold nature; he creates an informative "atmosphere" which is bound to act favourably on the minds of his colleagues in the House and to raise in their estimation the status of the craft which he represents; he is on the spot to watch the interests of pharmacists which may be threatened, and to block any private member's Bill which may be inimical to the welfare of pharmacy. Moreover, his active support of other interests in the House not connected with pharmacy could only be obtained by these particular interests promising active support on behalf of pharmacy when required. If ever we needed pharmacists in Parliament (and the more the better) it is now; surely the way in which Section 2 of the Poisons and Pharmacy Act has been abused would alone demand their presence. It is for such reasons that the committee make an earnest appeal for support to everyone connected with pharmacy. Workers will be appointed in every district to collect funds and to gather political information. In cases where the Divisional Secretary can cover the ground and is willing to do so, he will act as the canvasser for the Fund. In larger districts a sub-committee will be appointed, and I should be glad if pharmacists who are willing to help will send me at once their names and an indication whether they are (a) prepared to subscribe to the Fund, (b) assist in the canvass of their neighbours, and (c) whether they can supply definite information as to the amount and character of the political influence among the pharmacists in their district.

The Pharmacists' Parliamentary Representation Committee is a non-party organisation to the extent that we hope we may have representatives on both sides of the House. It is hoped that everyone connected with the craft will share in this work. Unfortunately the present state of business does not allow all of us to contribute guineas, but there are very few who cannot afford five shillings, and none who could not send a shilling. On behalf of the committee may I ask your readers to make an instant response? Contributions should be addressed to the Chairman (Mr. J. Rymer Young) or to

W. J. UGLOW WOOLCOCK,  
Secretary Pharmacists' Parliamentary Representation Committee.

17 Bloomsbury Square, W.C., July 13.

Pharmacists' Assistants v. Apothecaries' Assistants.

The following protest has been addressed by the National Union of Assistant Pharmacists to the Council of the Pharmaceutical Society of Great Britain:

We, the undersigned, officials and executive members of the National Union of Assistant Pharmacists, have carefully considered the communication sent to you by the Society of Apothecaries, asking for the admission of persons holding their assistants' certificates to the rank and privilege of pharmaceutical chemists.

On behalf of our members, who are the section in pharmacy most vitally affected by the proposition made therein, and as members of the Pharmaceutical Society and registered chemists and druggists, we hereby emphatically protest against their entrance on any such terms; and we respectfully urge upon you, as our representatives, to secure to us the utmost possible protection from such unfair competition.

Section 4, Clause B, of the Pharmacy Act, 1908, requires the Council of the Pharmaceutical Society to satisfy itself "that they are persons of sufficient skill and knowledge to be so registered," and we submit that the present holders of the apothecaries' assistants' certificate do not fulfil this requirement, for the following reasons:—

(1) All persons of eighteen years are eligible for the

certificate, which limits the possibilities of adequate practical training with theoretical knowledge.

(2) The whole period of training need not exceed six months, as contrasted with the three years' minimum required of candidates for the Minor qualification.

(3) No preliminary examination is demanded, thus reducing the educational standard below that which would be required for entrance to any profession.

(4) The skill and knowledge required for examination, as published in the syllabus, represents about one-fourth of the educational value of the Minor qualification.

We therefore respectfully suggest that the following condition be embodied in your reply to the Society of Apothecaries:

That whilst the Pharmaceutical Society is willing to register candidates as pharmaceutical chemists or chemists and druggists who can show that they have passed an examination equivalent to the Major and Minor examinations respectively, conducted by any responsible examining body, such as the Society of Apothecaries, the Civil Service Commissioners, or any Colonial body, they would call the attention of the Society of Apothecaries to the fact that the present certificate is not "evidence satisfactory to the Council of the Pharmaceutical Society that they are persons of sufficient skill and knowledge to be so registered," and that the mere fact of holding the assistants' certificate for a period of five years, as suggested, does not satisfy such requirements.

We submit that the Society of Apothecaries are bound to institute a higher examination before submitting to the Pharmaceutical Society any claim for registration. We feel it would be a gross subversion of the spirit and intention of the law, as expressed in the Pharmacy Act, 1908, and a standing injustice to all present holders of the Major and Minor qualifications, as well as a sacrifice of the best interests of pharmacy in the future, to grant to any person, without corresponding training, individual effort, and financial outlay, registration under the Pharmacy Act. We have every confidence that you will give that careful and sympathetic consideration which our request demands, having regard to the fact that the qualification is to many assistant pharmacists the sole means of livelihood.

The protest is signed by J. Wilson, Leonard Stevenson, M.P.S., Edw. A. Francis, M.P.S., James Smith, Jas. J. B. Waldron, M.P.S., C. Terry Holloway, M.P.S., P. Carlton Farrer, M.P.S., W. J. Findlay, Victor Bottomley, Edwin A. Newton, M.P.S., and Joseph M. Dowty, M.P.S.

#### Sale of Medicated Wines.

The following is the text of the letter sent by Mr. John Murison, managing director of Parke's Drug-stores, Ltd., to the Chancellor of the Exchequer in reply to his opinion (*C. & D.*, July 10, p. 55) that it is not necessary to create a medicated-wine licence for chemists only:

The Right Hon. D. Lloyd George,  
Chancellor of the Exchequer,

Treasury Chambers, Whitehall, S.W.

Sir,—I thank you for your letter of July 7 replying to my suggestion that a special licence should be provided for the sale of medicated wines by chemists.

I desire to respectfully point out that your reply does not indicate complete appreciation of our difficulty. I am aware of the provision in the Spirits Acts enabling chemists to sell spirituous medicines without a spirit-licence; I am also aware that the Revenue interprets this provision so as to exclude from it medicines which are prepared with wine as a menstruum, although a liberal interpretation of the Spirits Acts should, in my opinion, include all medicines prepared with spirit, even in the form of natural wine.

The narrower interpretation of the provision has compelled the Revenue authorities to make exceptions in respect to certain medicated wines which are prescribed by the British Pharmacopœia—viz., antimonial, ipecacuanha, iron, pepsin, and quinine wines—but even in respect to some of these, and coca-wine, degrees of nauseousness are laid down by the Revenue authorities which are utterly at variance with modern ideas of dosage and therapeutics. Proprietary or unofficial wines have to accord with those mentioned. The result is that for all other medicines prepared with wine it is required that chemists should take out an "off" wine-licence, and the wines so sold are commonly and publicly known as "medicated wines," while the *Revenue authorities apply that term solely to the six wines above named*.

I trust that this explanation makes it clear to you that my suggestion in respect to a special licence to chemists for the retailing of "medicated wines" is of some importance.

Those wines which the Revenue authorities exclude from their concession are medicated, and are prescribed for and used by the "sick, lame, halt, and distempered" (as the old Spirits Act gives it), and it is because they may be on the border-line that I suggest there is now occasion for providing

an "off" licence for chemists to cover the sale of such "medicated wines," so that chemists who desire to meet the demand for them on medical prescription or otherwise shall not be compelled to take out the ordinary "off" wine licence covering the sale of *all* wines.

I trust I have made it clear that this is a matter which deserves your reconsideration, and, if necessary, I can furnish you, in support of the principle which I suggest you should recognise, a list of officinal and proprietary wines of a medicinal nature which are used by the sick, but which the Revenue authorities do not regard as medicated wines.

Your obedient servant,

J. MURISON.

Harmood Street, London, N.W., July 9, 1909.

#### Chemist Extractors.

SIR,—Since my letters appeared you have in your leader suggested that the necessity for the formation of an Association of Chemist Extractors no longer exists. This may or may not be: I certainly have not had sufficient support to warrant my continuing the correspondence. Personally I still believe that the position is far from secure, as in the event of the unregistered dentists securing some recognition they will endeavour to restrict it to those engaged solely in dental work, as they base their claims on its being their living, at the same time asserting that this is not the case with the chemist. In the absence of an association, might I suggest that all chemists doing dental work should join the C.D.A., since it now undertakes to safeguard the chemist extractors' interests when assailed?

Yours truly,

J. L. S. (102/10.)

#### Store v. Private Assistants.

SIR, I read in your issue of July 3 an account of a meeting of Boot's Cash Chemists, Ltd., at St. Pancras Hotel, where Mr. Jesse Boot, in moving the adoption of the report, referred to his qualified staff as the finest and best-educated men connected with the chemists' business in the country. I have no wish to disparage the remarks of a gentleman whose financial success and business monopoly have made him a rather important factor in the drug-trade "from a commercial point of view," but I would respectfully suggest that his experience has been confined to the working of his own firm, where adaptation to their regulations very often marks the ability of the individual manager more than intrinsic merit. In the private firms of standing there exist a fellowship and appreciation entirely foreign to the stores; an assistant or manager in the former gets credit for any special merit displayed, which can be directly noticed by the principal; whereas in the stores such credit is often taken by someone in authority or entirely ignored at headquarters. Having been in touch for some years with both store and private trade, I certainly would give preference to the latter, as their treatment and association have a tendency to make them sentient beings and not automatic machines. As to education and scientific merits I leave your readers to judge.

Yours truly,

POT. SULPHURATA. (101/12.)

#### Legal Queries.

*Cambs* (106/31).—Benzoline is "motor-spirit" within the meaning of the Finance Bill, but motor-spirit is not benzoline in the commercial sense. You are correct in saying that there is little difference between them sometimes, and it is the extent of that difference which determines whether or not motor-spirit may be sold when benzoline is asked for.

*Disgusted* (104/6).—(1) Salts of lemon as a soluble salt of oxalic acid may be sold in Great Britain by any person, provided he labels according to Section 5 of the Poisons and Pharmacy Act—i.e., with the name of the article and the name and address of the seller. Failure to label renders the seller liable, on conviction, to a fine not exceeding 5*l.* (2) The statement by a contemporary that "the use of the title 'pharmacist' is now restricted to persons who are registered as pharmaceutical chemists, and a 'Minor' man so describing himself in an advertisement will be liable to a penalty of five pounds" is a mistake. This refers to the word "pharmacist," and not to "pharmacist." All registered chemists and druggists are now permitted to use the latter title without incurring the penalty of 5*l.*, imposed before April 1, 1909.

### Miscellaneous Inquiries.

We endeavour to reply promptly and practically to trade questions of general interest, but cannot guarantee insertion of replies on a particular date, nor can we repeat information given during the past twelve months. A preliminary condition for reporting on samples submitted is that all particulars as to source and uses are given to us.

*Mr. J. J. Wilson*, 393 Oxford Street, Manchester, desires to obtain the present address (believed to be in London) of "the Hon. Mrs. Baker" (signature "Muriel M. Baker"), a tall, fair, and superior-looking lady, who speaks of her husband being in India.

*Abortive* (104/35).—**ABORTION IN COWS.**—When this trouble becomes contagious, it is due to a specific bacillus. The remedies hitherto have all been of an empirical nature, such as keeping a billy-goat in the cow-house. A Departmental Committee of the Board of Agriculture and Fisheries has been inquiring into the subject since 1905, and has just issued a preliminary report. From this it appears that the Committee directed attention to means of rendering animals immune against the disease, and from experiments with heifers it is believed that inoculation of the animals with a rich liquid culture of the bacillus of cattle-abortion six weeks or two months before service will effect immunisation. The treatment was successful in the two heifers experimented upon, though the tests applied were, in point of severity, far beyond anything likely to be made in practice. It is surmised that, the immunisation process being harmless to non-pregnant animals, it should not be difficult to induce owners of infected herds to try preventive inoculation under the supervision of the Board, and in this way obtain an idea of its value as a measure in fighting the disease. The most useful way of employing preventive inoculation would be to inoculate all non-pregnant heifers and cows on an infected establishment six weeks or two months before putting them to the bull, and the method might also be used in the same way to increase the resistance of animals which have aborted and which are still non-pregnant. The evidence leads the Committee to form the opinion that immunity once acquired may be of long duration. This information may not be of service to your customer at present, but it is the latest about the disease. The remedy is not yet available, as far as we are aware, and there is no other which can be relied upon.

*E. C.* (85/73).—**TESTING FOR LEAD IN URINE.**—We do not know what is meant by Abram's test. There are several methods by which lead may be detected in urine, but the one most in favour, as it involves least trouble, is as follows:

Take 250 c.c. of the suspected urine, dissolve in it 2 grams of ammonium oxalate, and suspend in the solution a strip of clean and bright magnesium wire. Lead, if present, will be deposited upon the magnesium. After from twelve to twenty-four hours the wire should be removed and the presence of lead proved by dissolving it in dilute nitric acid and applying confirmatory tests—e.g., sulphuretted hydrogen produces a black precipitate, or potassium chromate precipitates lead chromate.

Another process is by destroying all organic matter and testing for lead in the residue. This may be done by evaporating a considerable volume of urine to dryness and incinerating the residue. The ash is dissolved in dilute nitric acid, diluted further with water, and the usual tests for lead applied. Or, instead of evaporating to dryness and incinerating, the organic matter may be destroyed by first concentrating the sample to about one-fourth and then treating it with potassium chlorate and hydrochloric acid and boiling until all or nearly all colour is destroyed. The minute quantity of lead remains in solution (as lead chloride is slightly soluble), and it may be detected by the usual lead tests, precaution being taken to drive off all chlorine and to reduce the acidity of the fluid by alkali, or sulphur may be thrown out when sulphuretted hydrogen is passed through it.

*Leicester* (102/30).—We do not know of any method of curing a TOENAIL THICKENED as the result of accident; the thickening is really nature's way of making sure that the damage is repaired. If the nail is causing pain or much inconvenience it could, of course, be removed by recourse to surgery. Alternatively, the feet should be bathed in warm water every second or third night, the nail being scraped with the finger-nails while the foot is in the water. A piece of soap-plaster (containing 5 per cent. of salicylic acid), cut to the size of the nail, may then be placed upon it, and allowed to remain until the next bathing, then removed. Repeat until the nail becomes of less oppressive thickness.

*Shampoo* (86/37).—**PERFUMING SHAMPOO-POWDER.**—A mixture of coumarin 1 dr., terpineol  $\frac{1}{2}$  oz., synthetic neroli  $\frac{1}{2}$  dr., makes a good perfume for about 4 lb. of the ordinary alkaline shampoo powder.

*Rus* (99/19).—**POTATO-SPRAY.**—The formula for copper sulphate and soda spray given in the *C. & D.*, July 3, p. 35, is ready for use. The following is the recipe for the corresponding copper sulphate and lime mixture:

Copper sulphate (98-per-cent. purity)	...	...	2 lb.
Unslaked lime	...	...	1 lb.
Water	...	...	10 gals.

Dissolve the copper sulphate in part of the water, and with another portion of the water prepare a smooth milk with the lime. The milk of lime is then slowly poured through a sieve into the copper-sulphate solution, which is kept constantly stirred. The resulting solution is ready for use, but must be well stirred each time the sprayer is filled from the stock solution.

*G. S.* (99/38).—**METAL-POLISH.**—We have published many formulæ for metal-polish within the last few years, and must, for the present, give the subject a rest. See last volume, p. 191.

*P. P. H.* (95/10).—**LOTION FOR BAD LEGS.**—This is an ordinary evaporating lead lotion of the following composition:

Liq. plumbi subacet.	...	...	3ss.
Sp. meth.	...	...	3iv.
Tinct. lavand. co.	...	...	3ss.
Aq. dest. ad	...	...	3xx.

#### Misce.

We were interested in your description of the use of this lotion, cloths saturated with it being applied to the leg over the plaster which covers the wound. The lotion would in this case be just as efficacious if the liq. plumbi were omitted.

*W. F. W.* (91/51).—**GINGERETTE ESSENCE.**—The recipe given below is from "Pharmaceutical Formulas," and is adapted to your label:

Gingerin	...	...	...	3j.
Capsicin	...	...	...	gr. vij.
Rectified spirit	...	...	...	3ij.
Glycerin	...	...	...	3iss.
Caramel	...	...	...	3ij.
Tartaric acid	...	...	...	3ss.
Syrup	...	...	...	3iij.
Orange-flower water to	...	...	...	3x.

Put the capsicin and gingerin in a mortar and triturate with the spirit; then stir in the glycerin, next the caramel and syrup. Dissolve the acid in the orange-flower water (previously brought to the boil), and finally add this solution to the mixture.

Put up in 4-oz. bottles with the following directions: Pour the contents of this bottle on one and a half to two pounds of loaf sugar; when absorbed by the sugar add three pints of boiling water; the result will be a syrup of which two or three tablespoonfuls added to a tumbler of water (hot or cold) will make a pleasant winter or summer drink.

*R. B. H.* (100/72).—(1) **FISH-BAIT OILS:**

Benzoin	...	...	...	3j.
Ol. olivæ	...	...	...	3xij.

Powder the benzoin and macerate with the oil for a day after a preliminary heating on the water-bath; then strain and add

Ol. rhodii	...	...	...	3ss.
Ol. patchouli	...	...	...	3vj.
Ol. viridis	...	...	...	3iss.

Refer also to *C. & D.*, February 1, 1908, p. 202. (2) You do not give any reason why we should analyse the sample of ointment.

*W. H. S.* (89/9).—There is no way of preventing hair-dye from coming off on to the pillow.

*Dundee* (93/15).—**ANALYSES.**—You have misunderstood the reason why we occasionally undertake analyses and publish the results in this column. It is not for the personal benefit of any one of our subscribers, but only in those cases where we think the results are likely to be of general interest. You ask us to make a quantitative analysis of a mixture without telling us anything about your reasons for sending it to us, which is contrary to the condition printed at the head of this section.

*Tenax* (98/23).—**BOOKS ON VENEREAL DISEASES.**—The following are modern works on this subject: Green's "Treatment of Gonorrhœa in the Male" (Baillière, 5s.); Corner's "Diseases of the Male Generative Organs" (Frowde, 5s.); and "Manual of Venereal Diseases," by Officers of the R.A.M.C. (Frowde, 5s.).

*Eboracum* (91/57).—The plate-powder basis is probably a variety of kieselguhr, but it is out of our province to examine a substance about which the only information given is that it is "believed to be" something or other.

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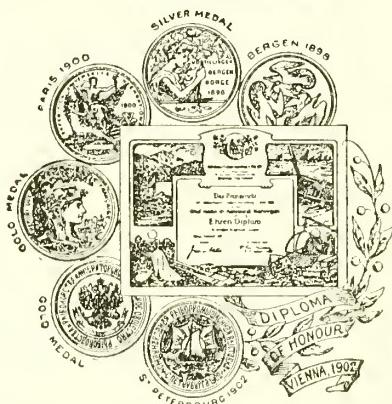
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- Manna, fine flake, 14 lbs. @ 2½ lb.; 7 lbs. @ 2½ lb.; 1 lb. @ 3½ lb.
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- Scammony Resin Pulv. B.P., 7 lbs. @ 4½ lb.; 1 lb. @ 4½ lb.
- Shellac (Orange), 1½ ozt. @ 7½ ozt.; 7 lbs. @ 10d. lb.
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- \*Chloroform, pure B.P., 12-8-lbs. @ 1½ lb.; 8 lbs. @ 1½ lb.; 6½ lb. botts. @ 1½ lb.
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- Cocainæ Hydrochlor., P.B., 25 ozs. @ 1 oz.; 4 ozs. @ 7½ oz.; 1 oz. @ 8½ oz.
- Oocidina, 1 oz. @ 10½ oz.; Phosph., 1 oz. @ 8½ oz.; Hydrochlor. or Sulph. 1 oz. @ 9½ oz.
- Colocynth, Apple, English ground, 1 cwt. @ 10½ lb.; 28 lbs. @ 1½ lb.; 7 lbs. @ 1½ lb.
- Composition Powder (Coffin's), 1 cwt. @ 58/- cwt.; 7 lbs. @ 7½ lb.
- Conf. Sennia P.B., 11 lbs. @ 8d. lb.; 7 lbs. @ 8½ lb.
- Dream Tartar, 88% powder, 1 cwt. @ 7½ lb.; 7 lbs. @ 9d. lb. [7½ lbs. @ 1½ lb.]
- Creosotum Beechwood, P.B., 22 lbs. @ 1½ lb.; Orcta c. Camph., 7 lbs. @ 8d. lb.
- " Gall. Pulv., in sacks, 10 cwt. @ 6/- cwt.; 1 cwt. @ 7½ cwt.; 14 lbs. @ 1½ lb.
- \*Dec. Aloes Co. Conc. 1-2, 8 lbs. @ 2½ lb. Sine croco, 6 lbs. @ 1½ lb.
- \*Dec. Cinchona (Rubra) Conc. 1-7, 6 lbs. @ 1½ lb.
- \*Dec. Senega Conc., 6 lbs. @ 2½ lb.
- Emulsio Ol. Morrhua, 10 lbs. @ 6d. lb.
- Escrine Sulph. in 15 grain tubes, 3/- each.
- Ess. Bergam. (Oil), 12 lbs. @ 1½ lb.; 1 lb. @ 15½ lb., not guaranteed absolutely pure.
- Ess. Limonis (oil) original coppers, 12 lbs. @ 3½ lb.; 6 1½ lbs. @ 4½ lb., not guaranteed absolutely pure.
- \*Ess. Pear (artificial), Jargonelle, 5 lbs. @ 1½ lb.; Bergamot, 2½ lb.

\*Minimum quantity at these prices, Home Trade, 3 Winchester Quarts assorted. Export, 12 Winchester Quarts assorted.

**NOTE.—Only Terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers.**

Goods carriage forward; all packages free; Export cases extra.

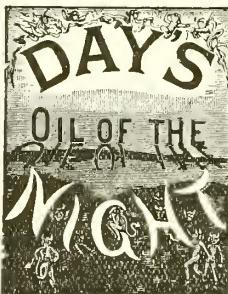
**ALLIANCE DRUG & CHEMICAL CO., LONDON.**

Office: 34 LEADENHALL STREET.

**KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.**

- Soda Salicyl. Pulv., 1 cwt. @ 1½ lb.; 28 lbs. @ 1½ lb.; 7 lbs. @ 1½ lb.; phys. pur. 28 lbs. @ 2½ lb.; 1 lb. @ 2½ lb.
- Soda Sulphite Recryst., 1 cwt. @ 16½; 7 lbs. @ 2½ lb.
- Soda Sulphocarbolar, B.P., 7 lbs. @ 10½ lb.; 1 lb. @ 1½ lb.
- \*Spt. Ether Nit. P.B., 4½ lbs. @ 3½ lb.; 1 lb. @ 3½ lb.
- \*Spt. Ammon. Aromat. P.B., 6 lbs. @ 2½ lb.
- \*Spt. Chloroformi P.B., 5 lbs. @ 3½ lb.
- strychnine cryst. B.P., 25 ozs. @ 1½ oz.; 1 oz. @ 1½ oz.; Hydrochlor. and Nitrate, 2½ oz. less.
- Sugar of Milk, B.P., 1 cwt. @ 4½ cwt.; 7 lbs. @ 6d. lb.
- Sulphonal B.P., 1 lb. @ 9½ lb.
- \*Tinct. Aurantil Aquos., 5 lbs. @ 10½ lb.
- \*Tinct. Belladon. Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Camph. Comp. Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Capsici Aquos., 5 lbs. @ 10½ lb.
- \*Tinct. Card. Comp. Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Catechu Aquos., 5 lbs. @ 10½ lb.
- \*Tinct. Cinchon. Comp. Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Cinchon. Rub. Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Digitalis Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Gelsem. Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Gentiana Oomp. Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Hyoscyami Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Iodi Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Lavandulae Comp. Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Nuci Vom. Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Opii Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Rhei Co. Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Seilla Aquos., 5 lbs. @ 10½ lb.
- \*Tinct. Senega Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Valerianæ Aquos., 5 lbs. @ 1½ lb.
- \*Tinct. Valerianæ Ammon. Aquos., 5 lbs. @ 1½ lb.
- Zinc Oxlate Fowler B.P.C. 7 lbs. @ 2½ lb.

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The great household Remedy for Chest Colds, Sore Throat, Rheumatism, Sciatica, & all aches & pains.

"A positive pain killer."—DR. GORDON STABLES, R.N.

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Trade Prices ... 10/- and 25/- per dozen.

CARRIAGE PAID.

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Beecham's Pills, 13 $\frac{1}{2}$ d. size (56 pills) ....	9/6
" 2s. 9d. " (168 " ) ....	25/-
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**ADVERTISING MATTER** to suit Retailers' requirements will be sent on application.

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CHEMIST'S CO-OPERATIVE WHOLESALE.

Emp. Picis B.P. 7 lbs. @ 8½ d. lb.	Opium Turc. (10½% Morphine). 7 lbs. @ 13 6 lb.; 1 lb. @ 14.
Plumbi B.P. 7 lbs. @ 8d. lb.	Oxymel Scillæ B.P. 28 lbs. @ 4½ d. lb.; 7 lbs. @ 5d.
" Resinæ B.P. 7 lbs. @ 8d. lb.	Phenacetin B.P. 28 lbs. @ 2 6 lb.; 7 lbs. @ 2 7½ lb. @ 2 9
" Saponis B.P. 7 lbs. @ 8d. lb.	Phenazonium B.P. 7 lbs. @ 6 9 lb.; 1 lb. @ 7½.
Ext. Cascaræ Sagradæ Liq. B.P. 6 lbs. @ 1 ½ lb.	Podophyllin Resin B.P. 7 lbs. @ 10½ lb.; 1 lb. @ 10 3.
" Ergotæ Liq. B.P. 1 lb. @ 2 10 lb.	Potassa Caustica Stick B.P. 28 lbs. @ 9d. lb.; 7 1 lb. Bots. @ 10d
" Glycyrrh. Liq. B.P. 6 lbs. @ 1 ½ lb. @ 3½ d.	Potass. Bicarb. B.P. Pulv. 1 cwt. @ 30/- cwt.; 7 lbs. @ 4d. lb. (11d.); 7 lbs. @ 1/-.
Ferri et Quinin. Cit. B.P. 100 ozs. @ 3d. oz.; 25 ozs.	" Bromid. B.P. 1 cwt. @ 10½ d. lb.; 28 lbs. @ 7 11.
Formaldehyde, 40%. 132 lb. Carboys, 45/- each.	" Iodid. B.P. 1 cwt. @ 7½ lb.; 14 lbs. @ 7 8; 3 lbs. @ 7 11; 1 lb. @ 8 2
Gamboge, English Ground. 7 lbs. @ 3 9 lb.	" Permang. Cryst. B.P. 1 cwt. @ 37 6 cwt.; 7 lbs. @ 5d.
Glycerine. Prices on application.	Pulv. Glycyrrh. Co. B.P. 28 lbs. @ 30/- cwt.
Guaiacol Carbonate. 1 lb. @ 5½ lb.	Quinin. Sulph. B.P. 100 ozs. @ 6½ d. oz.; 25 ozs. @ 7½ d.; 10 ozs. @ 8d.
Hexamethylenetetramine. 28 lbs. @ 1 11 lb.; 7 lbs. @ 2½; 1 lb. @ 2 3.	Rad. Jalapæ Pulv. B.P. 7 lbs. @ 1 10 lb.; 1 lb. @ 2 ½.
Hydarg. Ammon. B.P. 28 lbs. @ 2 10 lb.; 7 lbs. @ 8½.	Santoninum B.P. 7 lbs. @ 14½ lb.; 1 lb. @ 14 6.
" Iodid. Rub. B.P. 28 lbs. @ 8½ lb.; 7 lbs. @ 3 2.	Sodii Bicarb. Opt. (B. M. & Co.). 1 cwt. @ 6 6 cwt.
" Oxid. Flav. B.P. 28 lbs. @ 3 1 lb.; 7 lbs.	" Hyposulph. Pea Cryst. 1 cwt. @ 8½ cwt.
" Oxid. Rub. B.P. 28 lbs. @ 2 10 lb.; 7 lbs. @ 2 11.	Spt. Ether. Nit. B.P. 5 lbs. @ 3 5 lb.
" Perchlor. B.P. 28 lbs. @ 2 3½ lb.; 7 lbs.	" Ammon. Aromat. B.P. 5 lbs. @ 2 9 lb.
" Subchlor. B.P. 28 lbs. @ 2 7½ lb.; 7 lbs. @ 2 8.	Succns Belladon. B.P. 5 lbs. @ 1 ½ lb.
Ichthyol Ammon. 3 lbs. @ 10½ lb.; 1 lb. @ 10 9.	" Conii B.P. 5 lbs. @ 1 ¼ lb.
Infus. Aurant. Co. Conc., 1 to 7. 6 lbs. @ 1 1 lb.	" Digitalis. 5 lbs. @ 1 7 lb.
" Buchu Conc., 1 to 7. 6 lbs. @ 1 3 lb.	" Hyoscyami B.P. 5 lbs. @ 1 9 lb.
" Calumbæ Conc., 1 to 7. 6 lbs. @ 1 1 d. lb.	" Taraxaci B.P. 5 lbs. @ 1 ¼ lb.
" Cinchonæ Acid. Conc., 1 to 7. 6 lbs. @ 1 ¼ lb.	Sulphonal B.P. 1 lb. @ 9 3 lb.
" Gentian Co. Conc., 1 to 7. 6 lbs. @ 1 1 d. lb.	Sulphur Sublim. 1 cwt. @ 7 9 cwt.
" Quassiaæ Conc., 1 to 7. 6 lbs. @ 9d. lb.	Tinct. Aconiti B.P. 5 lbs. @ 2 8 lb.
" Rhei Conc., 1 to 7. 6 lbs. @ 1 1 lb.	" Aloes B.P. 5 lbs. @ 2 ½ lb.
" Senegæ Conc., 1 to 7. 6 lbs. @ 1 10 lb.	" Aurantii Recens B.P. 5 lbs. @ 3 2 lb.
" Sennæ Conc., 1 to 7. 6 lbs. @ 1 ½ lb.	" Belladonnæ B.P. 5 lbs. @ 2 8 lb.
Lin. Aconiti Meth. 6 lbs. @ 10d. lb.	" Benzoin. Co. B.P. 5 lbs. @ 3 3 lb.
Belladon. Meth. 6 lbs. @ 1 ½ lb.	" Buchu B.P. 5 lbs. @ 2 8 lb.
" Camph. B.P. 40 lbs. @ 1 1 d. lb.; 9 lbs. @ 1 ½.	" Calumbæ B.P. 5 lbs. @ 2 4 lb.
" " Ammon. Meth. 6 lbs. @ 1 1 d. lb.	" Camph. Co. B.P. 5 lbs. @ 2 ¼ lb.
Lint, Surgeons'. 7 lbs. @ 1 ½ lb.	" Canthar. B.P. 5 lbs. @ 3 6 lb.
Liq. Ammon. Acet. Conc., 1 to 7. 6 lbs. @ 9d. lb.	" Capsici B.P. 5 lbs. @ 2 8 lb.
Copaibæ Co. 5 lbs. @ 2 3 lb.	" Cardam. Co. B.P. 5 lbs. @ 2 5 lb.
" Bismuthi B.P. 6 lbs. @ 10½ d.	" Catechu B.P. 5 lbs. @ 2 3 lb.
" Morphina Acet. B.P. 6 lbs. @ 2 ½ lb.	" Chloroform. Morph. B.P. 1885. 5 lbs. @ 1 8 lb.
" Hydrochlor. B.P. 6 lbs. @ 2 ½ lb.	" Cinchonæ B.P. 5 lbs. @ 3 1 lb.
" Rhei pro Syr., 1 to 7. 6 lbs. @ 1 8 lb.	" Co. B.P. 5 lbs. @ 3 1 lb.
" Santal Co. 6 lbs. @ 3 ½ lb.	" Digitalis B.P. 5 lbs. @ 2 6 lb.
" Sennæ pro Syr., 1 to 3. 6 lbs. @ 1 6 lb.	" Gelsemii B.P. 5 lbs. @ 2 7 lb.
Magnes. Sulph. Opt. 1 cwt. @ 5 9 cwt.	" Gent. Co. B.P. 5 lbs. @ 1 11 lb.
Mel. Opt., Pale Set. 1 cwt. @ 36/- cwt.; 7 lbs. @ 5d. lb.	" Guaiaci Ammon. B.P. 5 lbs. @ 3 2 lb.
Mist. Sennæ Co. B.P. 20 lbs. @ 6½ d. lb.; 6 lbs. @ 7½ d.	" Hyoscyam. B.P. 5 lbs. @ 2 7 lb.
Morphinæ Acet. or Hydrochlor. Pulv. B.P. 16 oz. @ 6½ oz.; 1 oz. @ 6 8.	" Iodi B.P. 5 lbs. @ 3 9 lb.
Naphthaline, Candle, Marble or Flake. 1 cwt. @ 11/- cwt.; 28 lbs. @ 13/- cwt.	" Lavand. Co. B.P. 5 lbs. @ 3 5 lb.
Oleum Amygd. Dulc. Ang. B.P. 9 lbs. @ 2 1 lb.	" Myrrh. B.P. 5 lbs. @ 3 6 lb.
" Persic. 9 lbs. @ 1 1½ d. lb.	" Nucis Vom. B.P. 5 lbs. @ 2 4 lb.
" Essent., Artificial. 9 lbs. @ 2 6 lb.	" Opii B.P. 5 lbs. @ 2 9 lb.
" Caryoph. Ang. B.P. 5 lbs. @ 3 2 lb.; 1 lb. @ 3 6.	" Aquosa. 5 lbs. @ 2 ½ lb.
" Eucalypti B.P. 9 lbs. @ 1 3½ lb.	" Quinin. Ammon. B.P. 5 lbs. @ 2 4 lb.
" Juniper Wood. 9 lbs. @ 1 5 lb.	" Rhei Co. B.P. 5 lbs. @ 2 3 lb.
" Lavand. Gall. Opt. 1 lb. @ 8/- lb.	" Scillæ B.P. 5 lbs. @ 2 5 lb.
" Limonis (Guaranteed Absolutely Pure). 12 lbs. @ 4½ lb.; 1 lb. @ 4 8.	" Senegæ B.P. 5 lbs. @ 2 10 lb.
" Santal. Flav. Ang. B.P. 5 lbs. @ 10½ lb.; 1 lb. @ 10 9.	" Zingib. B.P. 5 lbs. @ 3 6 lb.
" Sinapis Expressed. 9 lbs. @ 6d. lb.	" Fort. B.P. 1885. 5 lbs. @ 3 10 lb.
" Wintergreen, Artificial. 5 lbs. @ 1 8 lb.; 1 lb. @ 1 10.	Ung. Acid. Boric. B.P. 28 lbs. @ 6d. lb.; 7 lbs. @ 7d.
	" Resinæ B.P. 28 lbs. @ 10d. lb.; 7 lbs. @ 11d.
	" Sulphuris B.P. 28 lbs. @ 8d. lb.; 7 lbs. @ 9d.

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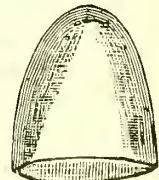
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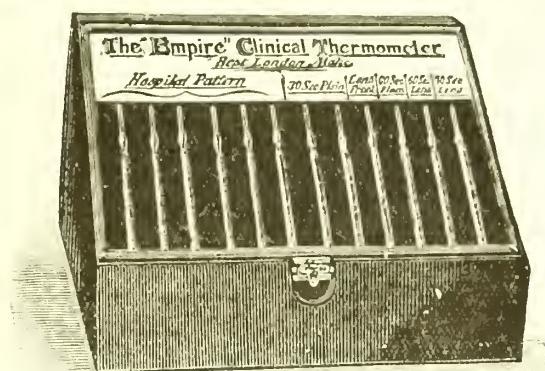
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Certificate of accuracy for any Thermometer	... per doz	<b>5 0</b>	



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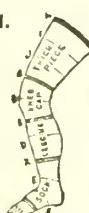
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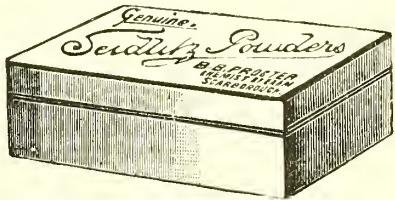


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